ORDER NO. MD0306260C2

Service Manual

DVD Home Theater Sound System

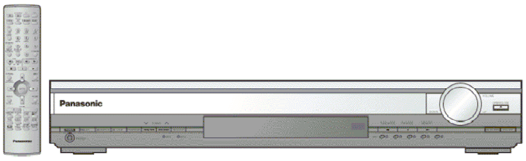
AUDIO/ VIDEO

COMPACT disc DIGITAL VIDEO

SA-HT700EE

Colour

(S)... Silver Type



SPECIFICATIONS

Specifications

■ AMPLIFIER SECTION

RMS Output Power: Dolby Digital Mode, 10 % Total Harmonic Distortion

1 kHz Front CH	50 W per channel (6 Ω)
1 kHz Surround CH	50 W per channel (6 Ω)
1 kHz Center CH	100 W per channel (6 Ω)
100 Hz Subwoofer CH	200 W per channel (4 Ω)
Total RMS Dolby Digital Mode Power	500 W

DIN Output Power: Dolby Digital Mode: 1 % Total Harmonic Distortion

1 kHz Front CH	35 W per channel (6 Ω)
1 kHz Surround CH	35 W per channel (6 Ω)
1 kHz Center CH	80 W per channel (6 Ω)
100 Hz Subwoofer CH	130 W per channel (4 Ω)
Total DIN Dolby Digital Mode Power	350 W
Input sensitivity/Input impedance	
AUX	250 mV, 15 kΩ

■ FM TUNER SECTION

Frequency range	87.50 - 108.00 MHz (50-kHz steps)
Sensitivity	1.8 µV (IHF)
S/N 26 dB	1.5 µV
Antenna terminal(s)	75 Ω (unbalanced)
Preset station	15

■ AM TUNER SECTION

Frequency range	522 - 1629 kHz (9-kHz steps)
AM Sensitivity S/N 20 dB at 999 kHz	560 µV/m
Preset station	15

■ DISC SECTION

Disc played [8 cm or 12 cm]

(1) DVD-RAM (DVD-VR formatted disc)
(2) DVD-Audio
(3) DVD-Video
(4) DVD/R (DVD-Video formatted disc)
(5) CD-Audio (CD-DA)
(6) Video CD
(7) SVCD (Confirming to IEC62107)
(8) CD-R/CD-RW (CD-DA, Video-CD formatted disc)
(9) MP3/WMA
- Maximum number of tracks and groups recognizable:
 999 tracks and 99 groups
- Compatible compression rate:
 MP3: between 32 kbps and 320 kbps
 WMA: between 48 kbps and 192 kbps

(10) JPEG
- Exif Ver 2.1 JPEG Baseline files
- Maximum number of pictures and groups recognizable:
 3000 pictures and 300 groups
- Picture resolution: between 320 x 240 and 6144 x 4096 pixels
 (Sub sampling is 4:2:2 or 4:2:0)

(11) HighMAT Level 2 (Audio and Image)

Video

Signal system	PAL/PAL60
Output level	
Composite video	1 Vp-p (75 Ω)
S-video Y output level	1 Vp-p (75 Ω)
C output level	0.3 Vp-p (75 Ω)(PAL)
Component video (Y: green, PB: blue, PR: red)	
Y output level	1 Vp-p (75 Ω)
PB output level	0.7 Vp-p (75 Ω)
PR output level	0.7 Vp-p (75 Ω)
RGB	
G output level	1 Vp-p (75 Ω)
B output level	0.7 Vp-p (75 Ω)
R output level	0.7 Vp-p (75 Ω)

Audio

Sampling frequency

CD	44.1 kHz
MP3	44.1 kHz, 48 kHz
DVD (Linear Audio)	48 kHz, 96 kHz
DVD-Audio	192 kHz
Decoding	16/20/24 bit linear
Number of channels	5.1 ch (FL, FR, SL, SR, C, SW)
Frequency response	20 Hz - 20 kHz (+1. -2 dB)
Pick up	
Beam Source	Semiconductor Laser
Wavelength	
DVD	658 nm
CD/VCD	780 nm
Wow and flutter	Less than possible measurement data
D/A converter	Delta sigma DAC

■ GENERAL

Power Supply	AC 230 V, 50Hz
Power consumption	
Main unit	25 W
Subwoofer	210 W
Power Consumption in standby mode	0.7 W
Dimensions (W x H x D)	430 x 67 x 429 mm
Mass	4.3 kg

■ SYSTEM

■ System : SC-HT700 (EE)	Main unit: SA-HT700 (EE) Speaker unit: SB-HT700 (P) Active subwoofer: SB-WA330 (EE)
■ Speaker : SB-HT700 (P)	Front speaker: SB-FS700 (P) x 2 Surround speaker: SB-FS801A (P) X 2 Center speaker: SB-PC700 (P) X 1

Notes:

1. Specifications are subject to change without notice. Mass and dimensions are aproximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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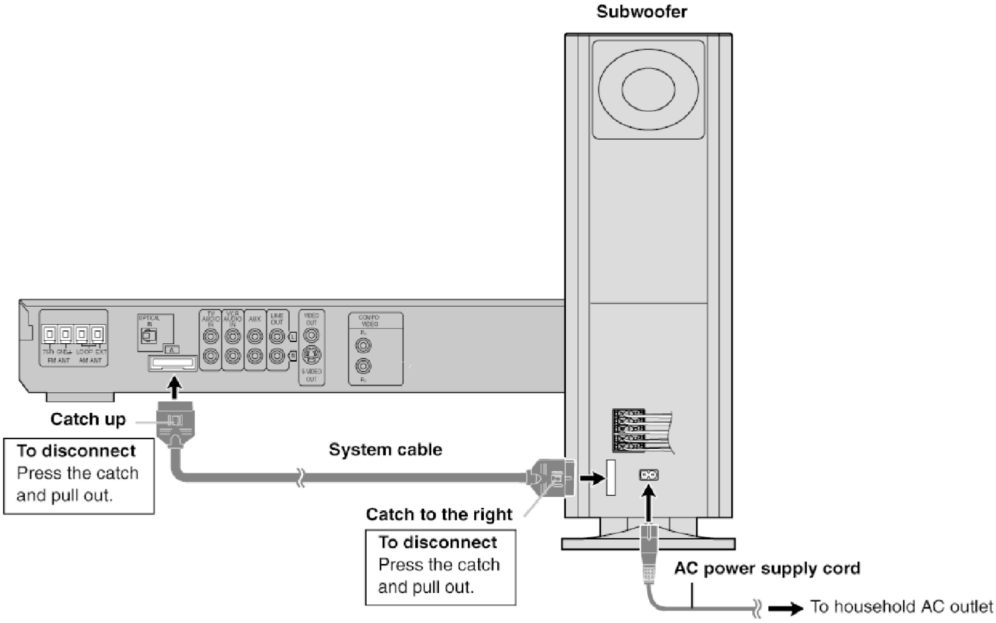
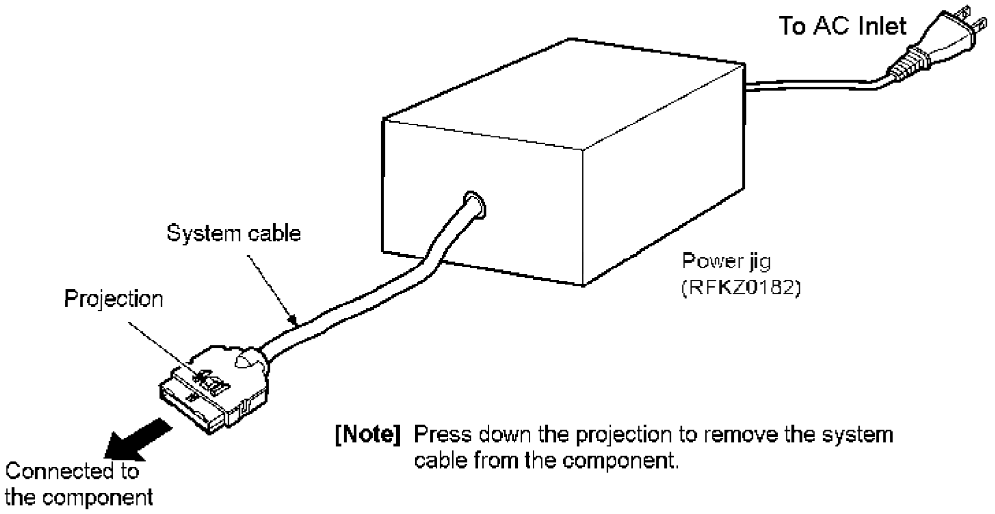
1. Use of Active Subwoofer

1.1. Checking Player with Active Subwoofer

1. **This unit uses the active subwoofer to supply the power of the component, and the active subwoofer should be connected to the component to check operational conditions of the component.**


Subwoofer
Catch up
To disconnect
Press the catch and pull out.
System cable
Catch to the right
To disconnect
Press the catch and pull out.
AC power supply cord
To household AC outlet

2. **If the active subwoofer is not available due to repair of the unit, use the following equipment.**


To AC Inlet
System cable
Projection
Power jig
(RFKZ0182)
Connected to the component

[Note] Press down the projection to remove the system cable from the component.

Jig product number
RFKZ0182 (110V , 127V, 220V, 230V - 240V for for overseas domestic use)

2. Before Repair and Adjustment (Using Active Subwoofer Unit)

Disconnect AC power, discharge Power Supply Capacitors C546 , C547, C548 & C549 through a 10 Ω , 1W resistor to ground.

DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.

After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

Current consumption at AC 230V, 50Hz in NO SIGNAL mode should be ~850 mA .

3. Protection Circuitry

The protection circuitry may have operated if either of the following conditions is noticed:

- No sound is heard when the power is switched ON.

- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are

shorted, or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.

If this occurs, follow the procedure outlines below:

1. **Switch OFF the power.**
2. **Determine the cause of the problem and correct it.**
3. **Switch ON the power once again.**

Note :

When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

4. Safety Precautions

4.1. General Guidelines

1. **When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.**
2. **After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.**
3. **After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.**

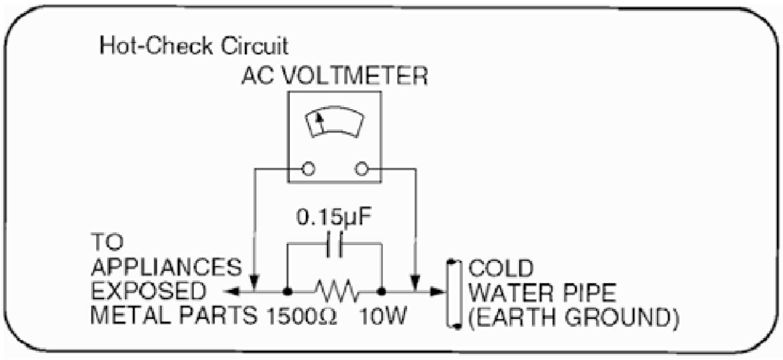
4.1.1. Leakage Current Cold Check

1. **Unplug the AC cord and connect a jumper between the two**

prongs on the plug.

2. **Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M Ω and 5.2M Ω .**
   When the exposed metal does not have a return path to the chassis, the reading must be ~.

Figure 1



4.1.2. Leakage Current Hot Check / (See Figure 1)

1. **Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.**
2. **Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 μ F capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.**
3. **Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.**
4. **Check each exposed metallic part, and measure the voltage at each point.**
5. **Reverse the AC plug in the AC outlet and repeat each of the above measurements.**
6. **The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is out of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.**

5. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor “chip” components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

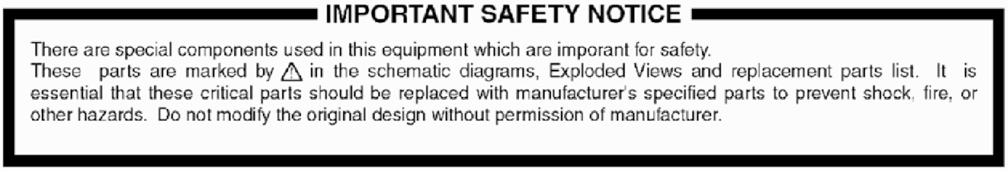
1. **Immediately before handling any semiconductor component or semiconductor-equiped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equiped with ES devices, place the assembly on a conductive surface such as aluminium foil, to prevent electrostatic charge build up or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder remover device. Some solder removal devices not classified as “anti-static (ESD protected)” can generate electrical charge to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminium foil or comparable conductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

   Caution

   Be sure no power is applied to the chassis or circuit, and observe

all other safety precautions.

8. **Minimize body motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).**

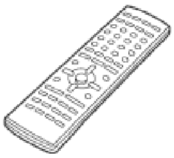


IMPORTANT SAFETY NOTICE

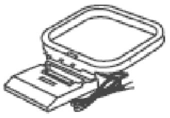
There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

6. Accessories

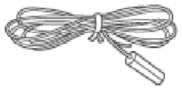
Remote control



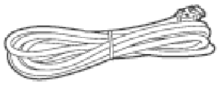
AM loop antenna



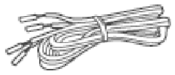
FM indoor antenna



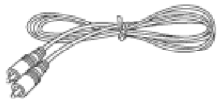
System cable



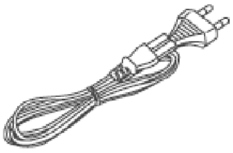
5 Speaker cables



Video Cable



AC main lead



7. Precaution of Laser Diode

CAUTION :

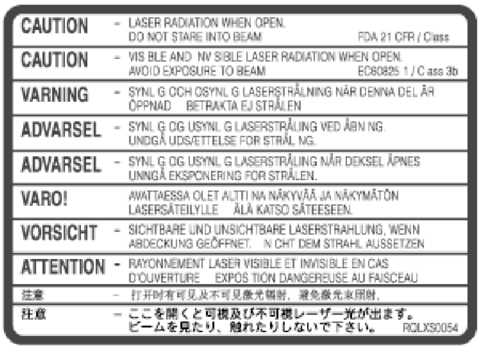
This unit utilizes a class 1 laser.
Invisible laser radiation is emitted from the optical pickup lens.
Wavelength: 658nm(DVD)/780nm(VCD/CD).
Maximum output radiation power from pickup: 100 µ W/VDE
When the unit is turned on :

1. **Do not look directly into the pick up lens.**
2. **Do not use optical instruments to look at the pick up lens.**
3. **Do not adjust the preset variable resistor on the pickup lens.**
4. **Do not disassemble the optical pick up unit.**
5. **If the optical pick up is replaced, use the manufacturer’s specified replacement pick up only.**
6. **Use of control or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.**

CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN TH
SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

■ **Use of Caution Labels**



CAUTION - LASER RADIATION WHEN OPEN.
DO NOT STARE INTO BEAM FDA 21 CFR / Class

CAUTION - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN.
AVOID EXPOSURE TO BEAM IEC60825-1 / Class 3b

VARNING - SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD BETRAKTA EJ STRÅLEN

ADVARSEL - SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING.
UNDGÅ UDSÆTTELSE FOR STRÅLING.

ADVARSEL - SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES
UNNGÅ EKSPONERING FOR STRÅLEN.

VARO! AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE ÄLÄ KATSO SÄTEESEEN.

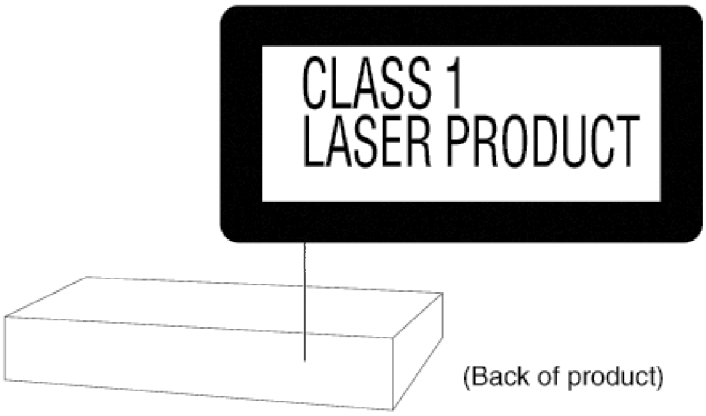
VORSICHT - SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN

ATTENTION - RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE EXPOSITION DANGEREUSE AU FAISCEAU

注意 - 打开时有可见及不可见激光辐射，避免激光束照射。

注意 - ここを開くと可視及び不可視レーザー光が出ます。
ビームを見たり、触れたりしないで下さい。 RQLXS0054

(Inside of product)



(Back of product)

8. Handling the Lead-free Solder

8.1. About lead free solder (PbF)

Distinction of PbF P.C.B.:

P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

Caution:

- **Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of soldering iron with temperature control, please set it to 700 ± 20°F (370 ± 10°C).**
- **Pb free solder will tend to splash when heated too high (about 1100°F/600°C).**
- **When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.**

9. Cautions to be taken when handling Optical Pickup

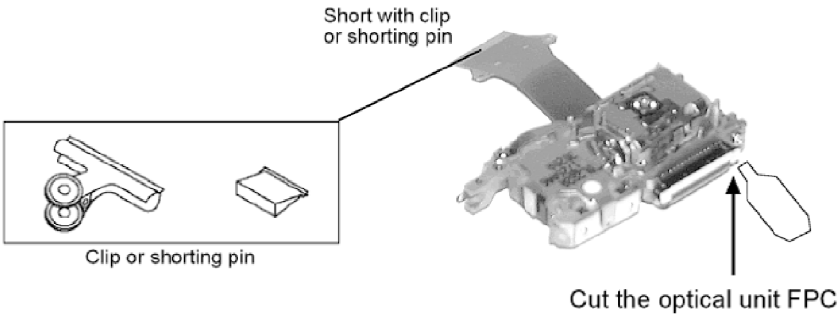
The laser diode used inside optical pickup could be destroyed due to static electricity as a potential difference is caused by electrostatic load discharged from clothes or human body.

Handling the parts carefully to avoid electrostatic destruction during repair.

9.1. Handling Optical Pickup

1. **Do not impact on optical pickup as the unit structurally uses an extremely precise technology.**
2. **Short-circuit the flexible cable of optical pickup remove from the circuit board using a short-circuit pin or clip in order to prevent laser diode from electrostatic destruction (Refer to Fig. 9.1 and Fig. 9.2)**
3. **Do not handle flexible cables forcibly as this may cause snapping. Handle the parts carefully (Refer to Fig. 9.1)**
4. **A new optical pickup is equipped with an anti-static flexible cable. After replacing and connecting to the flexible board, cut the anti-static flexible cable. (Refer to Fig. 9.1)**

Fig. 9.1



9.2. Cautions to be taken during replacement of Optical Pickup

Supplied optical pickup is equipped with a short clip found its flexible cable in order to prevent electrostatic destruction of laser diode. Before connection, remove the short clip, and check that the short land is opened. (Remove solder if the part is short-circuit).

9.3. Grounding for Preventing Electrostatic Destruction

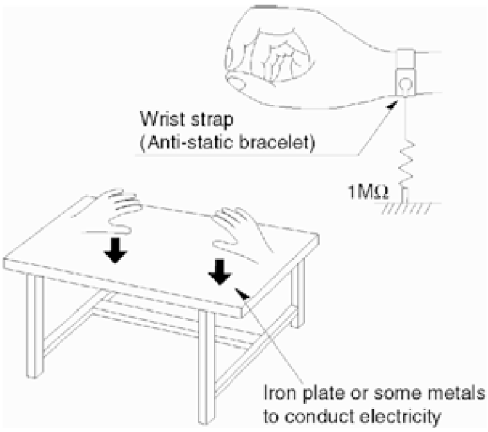
1. **Human body grounding**
   Use the anti-static wrist strap to discharge the static electricity accumulated in your body. (Refer to Fig. 9.2)
2. **Work place grounding**
   Place a conductive material (conductive sheet) or ironboard where optical pickup is placed. (Refer to Fig. 9.2)

Note :

Keep your clothes away from optical pickup as wrist strap does not

release the static electricity charged in clothes.

Fig. 9.2

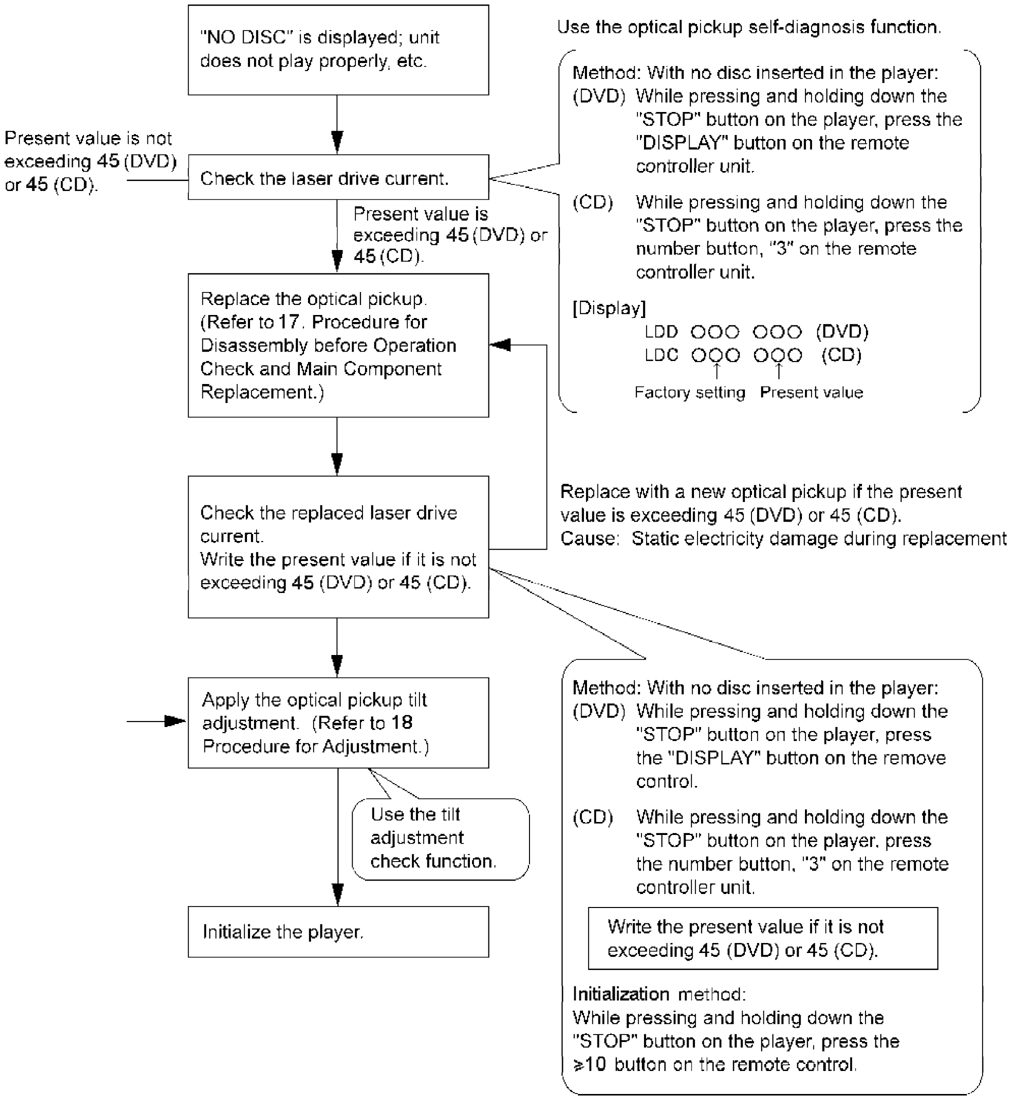

Wrist strap
(Anti-static bracelet)
1MΩ
Iron plate or some metals
to conduct electricity

10. Optical Pickup Self-Diagnosis and Replacement Procedure

10.1. Self-diagnosis

This unit is equipped with the optical pickup self-diagnosis function and the tilt adjustment check function. Follow the procedure described below during repair in order to perform self-diagnosis and tilt adjustment effectively. Especially when “NO DISC” is displayed, be sure to apply the self-diagnosis function before replacing with an optical pickup. Replacement of optical pickup generally requires when the present value of laser drive exceeds 45 (DVD) or 55 (CD).

Note:
Start diagnosis within three minutes after turning on the power (as diagnosis fails when the unit becomes warm).



"NO DISC" is displayed; unit does not play properly, etc.

Check the laser drive current.

Present value is not exceeding 45 (DVD) or 45 (CD).

Present value is exceeding 45 (DVD) or 45 (CD).

Use the optical pickup self-diagnosis function.

Method: With no disc inserted in the player:
(DVD) While pressing and holding down the "STOP" button on the player, press the "DISPLAY" button on the remote controller unit.
(CD) While pressing and holding down the "STOP" button on the player, press the number button, "3" on the remote controller unit.

[Display]
LDD OOO OOO (DVD)
LDC OOO OOO (CD)
Factory setting Present value

Replace the optical pickup. (Refer to 17. Procedure for Disassembly before Operation Check and Main Component Replacement.)

Check the replaced laser drive current.
Write the present value if it is not exceeding 45 (DVD) or 45 (CD).

Replace with a new optical pickup if the present value is exceeding 45 (DVD) or 45 (CD).
Cause: Static electricity damage during replacement

Method: With no disc inserted in the player:
(DVD) While pressing and holding down the "STOP" button on the player, press the "DISPLAY" button on the remove control.
(CD) While pressing and holding down the "STOP" button on the player, press the number button, "3" on the remote controller unit.

Write the present value if it is not exceeding 45 (DVD) or 45 (CD).

Initialization method:
While pressing and holding down the "STOP" button on the player, press the ≥10 button on the remote control.

Apply the optical pickup tilt adjustment. (Refer to 18 Procedure for Adjustment.)

Use the tilt adjustment check function.

Initialize the player.

10.2. Cautions to Be Taken During Replacement of Optical Pickup and Spindle Motor

Before replacing the optical pickup and spindle motor, check a total usage time respectively. Follow the checking method described below.

Item	Status and Key Function	Display
Checking DVD, CD laser usage time	With the unit stopped and no disc inserted, press the ■ button on the player and the ▲ button on the remote controller unit.	T1_xxxx_yyyy / xxxx(DVD), y total time is displayed with a digit number by the ten hour
Checking spindle motor usage time	While the DVD and CD laser usage times are displayed, press the ■ button on the player and the ▼ button on the remote controller unit.	T2_xxxx
Resetting DVD, CD laser usage time	With the unit stopped and no disc inserted, press the ■ button on the player and the ▶ button on the remote controller unit.	T1_xxxx / xxxx: total time is displayed with a four-digit nu the ten hours.
Resetting spindle motor usage time	While the spindle motor usage time is displayed, press the ■ button on the player and the ◀ button on the remote controller unit.	T2_00000

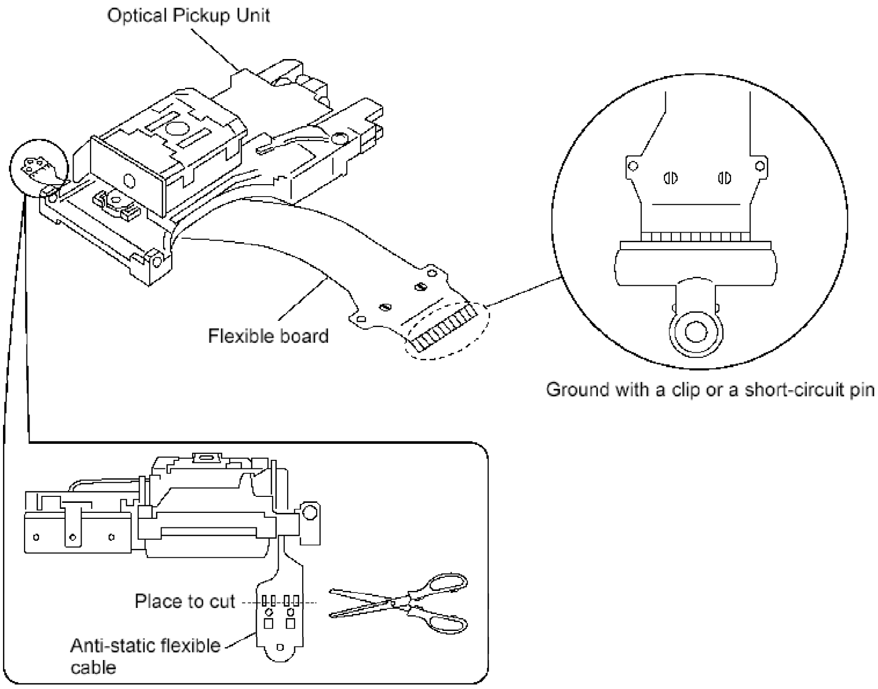
10.2.1. Cautions to be taken during replacement of optical pickup

Optical pickup could be damaged due to the static electricity discharged from human body. Wear proper protection gear against static electricity during optical pickup and its peripheral repair. (Refer to "Cautions to Be Taken When Handling Optical Pickup".)

- **Do not touch laser diode, actuator and their peripherals.**
- **Do not check laser diode with a tester and such. (The tester will be destroyed.)**
- **For short-circuiting or removing laser diode, the use of an anti-static soldering iron is recommended. (Recommended model: HAKKO ESD product)**
- **Solder the land of the flexible cable in the optical pickup.**

Note:

If an anti-static soldering iron is not available, short-circuit the terminal surface of the flexible cable and then the land using a clip or equivalent device.


Optical Pickup Unit
Flexible board
Ground with a clip or a short-circuit pin
Place to cut
Anti-static flexible cable

11. Self-Diagnosis Function

This unit is equipped with the self-diagnosis function, which displays an error when it occurs, for use during servicing.

11.1. Automatic Displayed Error Codes

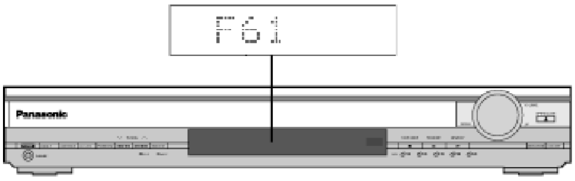
11.1.1. Automatic Display Function

For a power unit error, the code is automatically displayed.

F61:

Automatically displayed on the LCD of the player.

Fig. 11-1


F61
Panasonic

11.1.2. Re-Display

- **For F61 Display**
- **When the code, F61 is displayed, the power is automatically turned off.**
- **The code, F61 is displayed for three seconds, and then the current time appears.**
- **To retrieve the code, turn on the power button so that the code F61 appears, however, is switched to time display after three seconds, and the power is automatically turned off.**

11.1.3. Description of Error Code

11.1.3.1. F61

- State, Condition

  When the power is turned on, the unit is automatically turned off. The power does not turn on.

- Cause, Troubleshooting

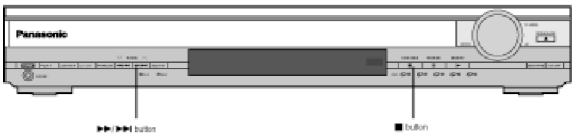
  Power circuit system failure and/or direct current flown to speaker terminal / Identify the cause and replace with new parts.

11.2. Memorized Error Codes

11.2.1. Activating Self-Diagnosis Function and Displaying Method

1. Turn on the power.
2. Select DVD/CD function. With no DVD/CD inserted in the player, press and hold down the ■ button for at least two seconds, and press the “0” button on the remote control for at least two seconds in order to display “DVD_F_ _ _ ”.
3. Press the ■ button. If a memorized error is detected, the result of self diagnosis is displayed. (Ex.: T H15) / If several errors are detected, press the ■ button to display each.

Fig. 11-2



11.2.2. Re-Display

- Press the power button to turn off the power, and then turn on the power.
- The details of self diagnosis are stored in the unit memory. / To retrieve them, follow the procedure described the above, “Activating Self-Diagnosis Function and Displaying Method”.

11.2.3. Deleting Details of Self Diagnosis

- After repair, press and hold down the ■ button for at least five seconds, [CLEAR] appears for a second and then “T________” appears. (Deleting the details of self diagnosis)
- After repairing errors, be sure to delete the details of self diagnosis.

11.3. Mode Table 1

Following modes are available with combinations of the pressed buttons on the player and on the remote controller unit.

Player	Remote controller unit	Usage
■ button	0	Error code display (Refer to the item, 11.4. DVD Error Code Des
	5	Tilt adjustment
	6	Region number and broadcasting system check
	7	Built-in program version check
	DISPLAY	DVD laser drive current check
	3	CD laser drive current check
	PAUSE	Writing of laser drive current value after replacement of optical (Do use this function only when optical pickup is replaced.)
	≧10	Initialization of the player (factory setting is restored.) / Used af replacement of micro-computer and its peripherals and printed board.

11.4. DVD/CD Self-Diagnosis Error Code Description

Error Code	State, Conditon	Cause, Troubleshooting
H15	The disc tray cannot be opened: it closes spontaneously.	Disc tray open/close detection switch (S failure. / (Check and replace)
H16	The disc tray cannot be closed: it opens spontaneously.	

Error Code	Meaning	Details
U. H. Error		
U11	Focus servo failure	
H01	Tray loading failure	
H02	Spindle servo failure	(Spindle servo, DSC, SP motor, CLV ser
H03	Traverse motor failure	
H04	Tracking servo error	
H05	Seek timeout failure	
DSC system		
F500	DSC failure	DSC stops due to servo failure. / (Startu failure, etc.)
F501	DSC not Ready failure	Communication failure between DSC an computer / (No communication because does not move)
F502	DSC Time out failure	See F500.
F503	DSC communication failure	Communication failure (Result failure o after communication command is trans
F505	DSC Attention Error	See F500.
F506	Invalid media	Disc is placed upside down; TOC is unr or invalid disc is inserted.
Disc Code		

Error Code	Meaning	Details
F103	Ilegal highlight position	Disc standard is possibly illegal when h is displayed.
IIC Error		
F4FF	Forced initialization failure (Time out)	
F880	Unsuitable task number	When a message arrives from not existi
F890	A message is sent during AV task transmission	During transmission of a message to A
F891	Unable to transmit a message to AV task	When transmission of a message to AV starts
F893	FROM altered	
F894	EEPROM failure	
F8A0	Unsuitable message command	When transmission of a message to AV starts

11.5. Error Codes Stored During No Play

Error Code	Meaning	System Computer Item	Setting Task	Intern in sy com
F0BF	6) Unable to replay due to physical layer identification failure	PCND_NOPLAY_PHYSICAL 0x50	DriveManager	0xD0B
F0C0	8) DVD: Unable to replay due to no DVD Video/Audio/VR	PCND_NOPLAY_VIDEO 0x70	DiscManager	0xD0C
F0C1	9) DVD: Prohibited due to illegal regional code	PCND_NOPLAY_RCD 0x80	DiscManager	0xD0C
F0C2	A) DVD: No replay due to PAL system	PCND_NOPLAY_PAL 0x90	DiscManager	0xD0C
F0C3	B) DVD: All title replay prohibited in parental setting	PCND_NOPLAY_PTL 0xA0	DiscManager	0xD0C
F0C4	C) VCD: Prohibited due to PHOTO CD format	PCND_NOPLAY_PHOTOCD 0xB0	DiscManager	0xD0C
F0C5	D) VCD/CD: Prohibited due to CD-ROM without CD-DA	PCND_NOPLAY_CDROM 0xC0	DiscManager	0xD0C

11.6. Mode Table 2

Following modes are available with combinations of the pressed buttons on the player and on the remote controller unit.

Item	Operational Condition and Key Function	Details	Display	To E
Jitter display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “5” on the remote controller unit.	Jitter display / Measures and displays jitter. Measurement is repeated every second. Read error counter starts at 0 at the mode setting, and increased by one as data read fails at target block. A small defect is allowed to correct by retry. Any possibility is counted as one increment. Repetitive errors after retry increase by two levels or more.	J*1 xxx*2 _yyy*3 _zz*4 / / *1 : Jitter display mode / *2 : Jitter measurement value / *3 : Read error counter / *4 : Focus driving value Values are shown to one decimal place in the decimal digit.Focus driving value is displayed in the hexadecimal digit.	Pres STOP OPEN
Error code display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “0” on the remote controller unit.	Error code display / Displays the latest error code stored in EEPROM.	DVDnn_F--- / *nn: Error history / *--: Error number	Autom exits mode five s
Measurement of laser current electricity initialization value	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the ⏸ button on the remote controller unit.	Measurement of laser current electricity initialization value / Memorizes each initialization value of DVD and CD in EEPROM.	LDO*1 _038*2 _030*3 / / *1 : Laser current electricity measurement mode / *2 : DVD current electricity value / *3 : CD current electricity value Values are shown in the decimal digit. The above example indicates that the current electricity initialization value is 38mA at DVD laser and 30mA at CD laser when laser is turned on.	Autom exits mode five s

Item	Operational Condition and Key Function	Details	Display	To E
Measurement of DVD laser current electricity	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the DISPLAY button on the remote controller unit.	Measurement of DVD laser current electricity / Measures DVD laser current electricity and displays the result together with the initialization value stored in EEPROM. After measurement, DVD laser is lit till the power is turned off (or goes off when the primary power is turned off).	LDD*1 _037*2 _037*3 / / *1 : DVD laser current electricity measurement mode / *2 : Current electricity initialization value stored in EEPROM / *3 : Present value of current electricity Values are shown in the decimal digit. The above example indicates that the current electricity initialization value is 37mA and its present value is 37mA.	Auto exits mod five s
ADSC internal RAM display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button “1” or “2” on the remote controller unit.	ADSC internal RAM display / Reads and displays the RAM value inside ADSC. The address is renewed when the CLEAR key is pressed so that the values at eleven points appear.	A*1 _FB0*2 _FC00*3 / / *1 :ADSC internal RAM display mode / *2 : Address / *3 : RAM value at displayed address Values are shown in the hexadecimal digit. The above example indicates that ADSC value at the address, 0FAh is 6901h.	Press STO OPE
Measurement of CD laser current electricity	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button “3” on the remote controller unit.	Measurement of CD laser current electricity / Measures CD laser current electricity and displays the result together with the initialization value stored in EEPROM. After measurement, CD laser is lit till the power is turned off (or goes off when the primary power is turned off).	LDC*1 _030*2 _030*3 / / *1 : CD laser current electricity measurement mode / *2 : Current electricity initialization value stored in EEPROM / *3 : Present value of current electricity Values are shown in the decimal digit. The above example indicates the current electricity initialization value is 30mA and its present value is 30mA when laser is turned on.	Auto exits mod five s

Item	Operational Condition and Key Function	Details	Display	To E
User initialization	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button ≧10 on the remote controller unit.	User initialization / The user setting recovers the factory setting.	“INITIALIZED”	Auto exits mode five s
Region display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “6” on the remote controller unit.	Region display	[srrrxxyzzzz] / / s : Panecon model type / rrr : Panecon release number / x : Syscon generation (45) / y: Syscon model type / zzz: Syscon release number	Auto exits mode five s
Firmware version display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “7” on the remote controller unit.	Firmware version display	rrr*1 _xx*2 y*3 zzz*4 / / *1 : Panel computer release number / *2 : System computer generation / *3 : System computer model type / *4 : System computer release number	Auto exits mode five s
Region and firmware display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “8” on the remote controller unit.	Region and firmware version display	_r*1 __xx*2 y*3 zzz*4 / / *1 : Region number / *2 : System computer generation / *3 : System computer model type / *4 : System computer release number	Auto exits mode five s

Item	Operational Condition and Key Function	Details	Display	To E
Laser use time	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the ▲ button on the remote controller unit.	Laser usage time / Measures each for DVD and CD respectively.	T1_1234_5678 / / The numbers in the left show usage time for DVD laser and those in the right for CD laser. The four-digit number is shown by the ten hours in the decimal digit. The number after 0000 is 9999.	Auto exits mode five s
Reset laser use time	While the usage time 1 is displayed, press and hold down the ■ button on the player and the ▼ button on the remote controller unit.	Laser usage time reset / Resets both for DVD and CD at once.	T1_0000_0000	Auto exits mode five s
Spindle use time	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the ▶ button on the remote controller unit.	Spindle motor usage time	T2_12345 / / The five-digit number is shown by the ten hours in the decimal digit. The number after 00000 is 99999.	Auto exits mode five s
Reset spindle use time	While the usage time 2 is displayed, press and hold down the ■ button on the player and the ◀ button on the remote controller unit.	Usage time 2 reset / Spindle motor usage time	T2_00000	Auto exits mode five s

Item	Operational Condition and Key Function	Details	Display	To E
Communication error display /	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the MENU button on the remote controller unit.	Displays frequency of communication errors between system computer firm IC and mechanical computer IC during DVD module.	E_00_00_00	Auto exits mode five s

11.7. Tray Lock Function

11.7.1. Setting

- Disc Lock Function

1. **With the SELECTOR on DVD/CD and POWER ON, hold down the [■ STOP] KEY on the main unit, and then press the [POWER] KEY on the remote control for 3 seconds to enter to Lock mode A.[_ _ _LOCKED_] will be displayed for 3 seconds, and then current disc will begin playing.**
2. **In Lock mode A, the following key is disabled. [OPEN/CLOSE]**

- Operation Lock Function

1. **With the SELECTOR on DVD/CD and POWER ON, hold down the [CD PLAY] KEY on the main unit, and then press the [POWER] KEY on the remote control for 3 seconds to enter Lock mode B. [_ _ _ LOCKED_] will be displayed for 3 seconds, and the current disc will begin playing.**
2. **Lock mode B primarily controls the selector and disc operations, and disenables for the following keys.**

Note:

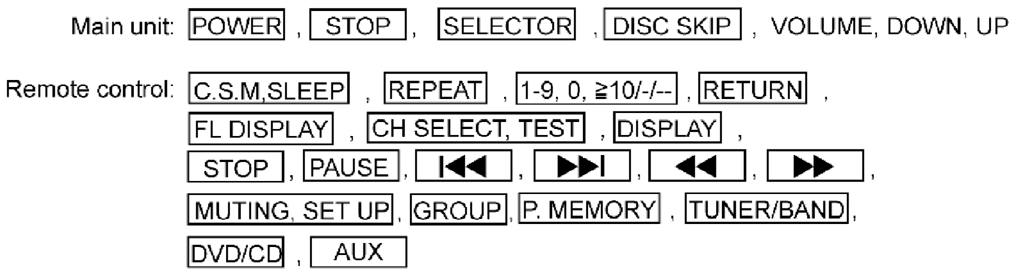
OPEN/CLOSE ⏏ button are invalid and the player displays "___LOCKED_" while the lock function mode is entered.

- Prohibiting operation of selector and disk

1. **Select the DVD/CD function.**
2. **Press and hold down the ▶ button on the player and the power**

button on the remote controller unit for at least three seconds. (The message, "___LOCKED_" appears when the function is activated.)

Note:
The following buttons are invalid and the player displays "___LOCKED_" while the lock function mode is entered.



Main unit: POWER , STOP , SELECTOR , DISC SKIP , VOLUME, DOWN, UP

Remote control: C.S.M,SLEEP , REPEAT , 1-9, 0, ≧10/-/-- , RETURN ,
FL DISPLAY , CH SELECT, TEST , DISPLAY ,
STOP , PAUSE , |◀◀ , ▶▶| , ◀◀ , ▶▶ ,
MUTING, SET UP , GROUP , P. MEMORY , TUNER/BAND ,
DVD/CD , AUX

11.8. Things to Do After Repair

Follow the procedure described below after repair.

1. **While the power is on, press the ≜ button to close the tray.**
2. **Press the power button to turn off the power.**
3. **Unplug the power cable.**

Note:
It is prohibited to unplug the power cable while the tray is opened and to close the tray manually.

12. Cautions To Be Taken During Servicing

12.1. Recovery after the dvd player is repaired

- **When FLASH ROM or module P.C.B. is replaced, carry out the recovery processing to optimize the drive. Playback the recovery disc to process the recovery automatically.**
- **Recovery disc (Product number=RFKZD03R004)**
- **Performing recovery**
  1. **Load the recovery disc (Product number: RFKZD03R004) to the player and run it.**
  2. **Recovery is performed automatically. When it is finished, a message appears on the screen.**
  3. **Remove the recovery disc.**
  4. **Turn off the power.**

Note:
This unit requires no initialization process carried out after the traditional DVD players were repaired. When the recovery measures are taken, the customer setting will return to the factory setting as same as the procedure described in item “Initialization” in 9.6 is carried out. Write down the contents of the setting before recovery processing, and reset the player.

12.2. DVD Player Firmware Version Upgrade Process

Firmware of DVD player may upgrade to conform to improvement of its performance and quality including operational range, playability of non-standardized discs, etc. The version upgrade disc contains the recovery function, and the recovery disc is not necessary.

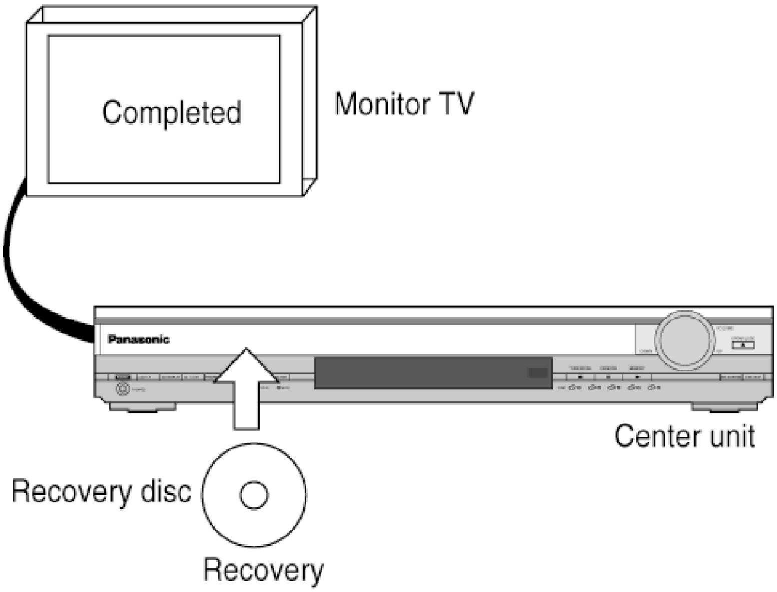
Note:
Version upgrade process cannot be complete if the AC power is cut off due to power failure and other occasions during the process. If this occurs, replace FLASH ROM and restart version upgrade. Version upgrade disc number is informed when ordered.

12.3. Firmware Version Upgrade Process by Using Disc and Recovery Process

- Recovery process

- Firmware version upgrade process

Both of the above procedures automatically start when the recovery disc is replayed.General CD -R disc allows version upgrade process and recovery process, making version upgrade through disc simple. / Recovery process: Optimization process of player after replacement of FLASH ROM, EEPROM, or module circuit board / Version upgrade process: Renewal of firmware for improvement of operational range and performance



12.3.1. Self-Diagnosis Function

- Total usage time display (spindle motor, DVD/CD laser)
- ADSC internal RAM display
- Others: Last error count......20 items

Efficiency of failure diagnosis is expected to improve by using the above functions together with the repair process.

[Purpose of Use]
Total usage time display: used for estimating a failure due to exhausted spindle motor, laser, or other parts.
ADSC internal RAM display: used for deciding servo system failure according to servo learning values.

12.4. Using Recovery Disc

12.4.1. Recovery Process

1. Insert the recovery disc (RFKZD03R004) to the player to replay.

2. The recovery process automatically starts, and a message of completion prompts on the screen.

3. Remove the disc.

4. Turn off the power.

12.4.2. Version Upgrade Process

1. Insert the recovery disc to the player to replay.

2. The version of player is automatically checked and prompts if necessary.

3. Select version upgrade process using the cursor keys on the remote controller unit. (Select YES or NO)

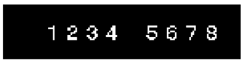
4. a. If YES is selected, the process starts.
b. If NO is selected, only the recovery process is applied.

5. a. When the version upgrade process is complete, a message of completion appears on the screen. Remove the disc.
b. Follow the instruction appearing on the screen, and remove the disc.

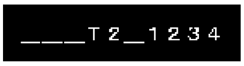
6. Turn off the power.

12.5. Total Usage Time Display

1. Details of Operation/Display



Total usage time of DVD/CD lasers
Time is shown by the ten hours in the decimal digit.



Total usage time of spindle motor
Time is shown by the ten hours in the decimal digit.

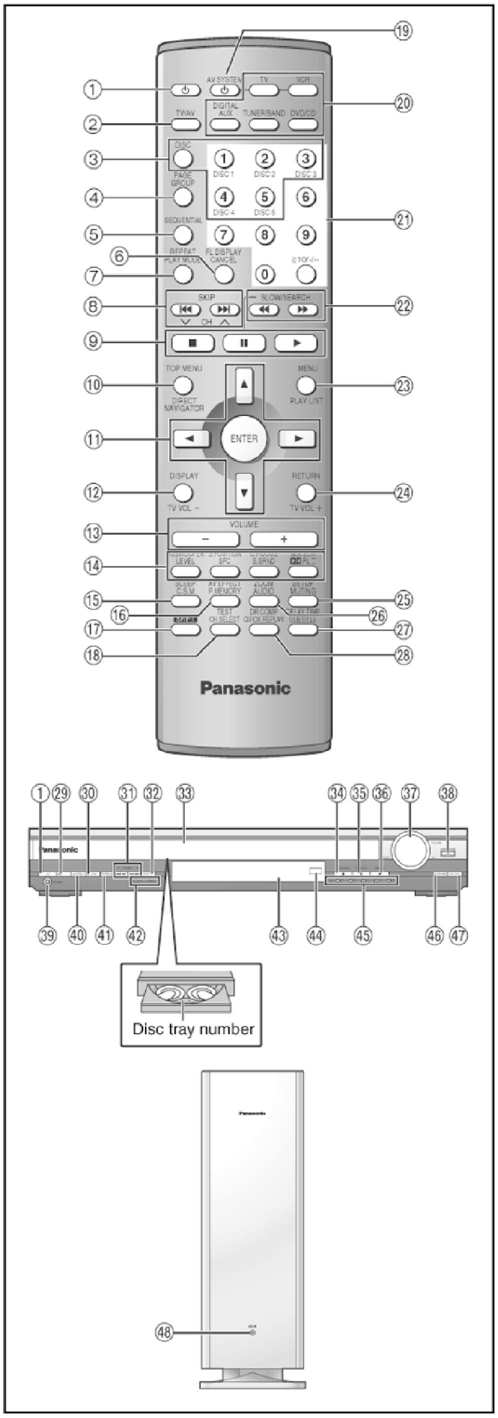
Keys for Operation: / Laser usage time: While the player is stopped and no disc is inserted, press both the ■ button on the player and the ▲ button on the remote controller unit. / Spindle motor usage time: While the player is stopped and no disc is inserted, press both the ■ button on the player and the ► button on the remote controller unit. /   / To reset the usage time, while the usage time is displayed: / Laser usage time: press both the ■ button on the player and the ▼ button on the remote controller unit. / Spindle motor usage time: press both the ■ button on the player and the ◄ button on the remote controller unit.

2. Purpose of Use

To obtain reference data of laser and spindle motor systems during failure diagnosis. / To check faulty parts during re-repair.

13. Operation Procedure

Control reference guide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AV SYSTEM
TV
VCR
TV/AV
DIGITAL AUX
TUNER/BAND
DVD/CD
DISC
1 DISC 1
2 DISC 2
3 DISC 3
PAGE GROUP
4 DISC 4
5 DISC 5
6
SEQUENTIAL
7
8
9
REPEAT PLAY MODE
FL DISPLAY CANCEL
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≧10/-/--
SKIP
CH
SLOW/SEARCH
TOP MENU
DIRECT NAVIGATOR
MENU
PLAY LIST
ENTER
DISPLAY
TV VOL −
RETURN
TV VOL +
VOLUME
−
+
LEVEL
SFC
S.SRND
PL
C.S.M
P.MEMORY
AUDIO
MUTING
SHIFT
TEST
CH SELECT
DR.COMP
QUICK REPLAY
SUBTITLE
Panasonic
① ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳
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Disc tray number
Panasonic
㊽

Remote control

① **Standby/on switch [⏻]**
② **TV/AV button [TV/AV]**
③ **Disc select button [DISC], Disc buttons [DISC1]–[DISC5]**
④ **Group, Page button [GROUP, PAGE]**
⑤ **Sequential button [SEQUENTIAL]**
⑥ **Cancel, FL display button [CANCEL, FL DISPLAY]**
⑦ **Play mode, Repeat button [PLAY MODE, REPEAT]**
⑧ **Skip, Preset channel, TV channel button**
[⏮ ⏭, SKIP, ∨ CH ∧]
⑨ **Basic operation buttons**
⑩ **Top menu, Direct navigator button**
[TOP MENU, DIRECT NAVIGATOR]
⑪ **Cursor buttons [▲, ▼, ◄, ►], Enter button [ENTER]**
⑫ **Display, TV volume down button [DISPLAY, TV VOL−]**
⑬ **Volume buttons [−, +, VOLUME]**
⑭ **Sound field, sound quality buttons**
Dolby Pro Logic button [DDPL]
⑮ **Custom sound memory, Sleep button [C.S.M, SLEEP]**
⑯ **Position memory button [POSITION MEMORY]**
⑰ **Shift button [SHIFT]**
To use functions labeled in orange:
While pressing [SHIFT], press the corresponding button.
⑱ **Channel select, Test button [CH SELECT, TEST]**
⑲ **AV system standby/on button [⏻, AV SYSTEM]**
⑳ **Source select buttons**
Face towards this unit to change the source.
Press [TV] or [VCR] first to operate a Panasonic television or video cassette recorder
AUX button [AUX]
㉑ **Numbered buttons [1–9, 0, ≧10/-/--]**
㉒ **Slow/search, Tuning buttons**
[◄◄, ►► SLOW/SEARCH]
㉓ **Menu, Play list button [MENU, PLAY LIST]**
㉔ **Return, TV volume up button [RETURN, TV VOL+]**
㉕ **Muting, Setup button [MUTING, SETUP]**
㉖ **Audio, Zoom button [AUDIO, ZOOM]**
㉗ **Subtitle button [SUBTITLE]**
㉘ **Quick replay button [QUICK REPLAY]**

Main unit

① **Standby/on switch [⏻/I]**
Press to switch the unit from on to standby mode or vice versa.
In standby mode, the unit is still consuming a small amount of power.
㉙ **Standby/on indicator**
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.
㉚ **Custom Sound Memory button [C.S.M]**
㉛ **Skip/search, Tuning buttons**
[⏮/◄◄, ►►/⏭, ∨ TUNING ∧]
㉜ **Source select button [SELECTOR]**
DVD/CD→FM→AM→TV→VCR→AUX
㉝ **Drawer**
㉞ **Stop, Tune mode button [■, TUNE MODE]**
㉟ **Pause, FM mode button [❚❚, FM MODE]**
㊱ **Play, Memory button [►, MEMORY]**
㊲ **Volume control [VOLUME, DOWN, UP]**
㊳ **Drawer open/close button [⏏, OPEN/CLOSE]**
㊴ **Headphone jack [PHONES]**
㊶ **Progressive out button [PROGRESSIVE]**
㊸ **Display**
㊹ **Remote control signal sensor**
㊺ **Disc indicators [DISC 1–5]**
㊻ **Disc exchange button [DISC EXCHANGE]**
㊼ **Disc skip button [DISC SKIP]**

Subwoofer

㊽ **AC supply indicator [AC IN]**
This indicator lights when the unit is connected to the AC mains supply.

14. Disc information

■ Discs that can be played

DVD-RAM	DVD-Audio	DVD-Video	DVD-R	SVCD	Video CD	CD	CD-R/RW
DVD RAM RAM4.7 Shown as "DVD-VR" on the display	DVD AUDIO	DVD VIDEO DVD VIDEO	DVD R R4.7	COMPACT disc SUPER VIDEO Conforming to IEC62107	COMPACT disc DIGITAL VIDEO	COMPACT disc DIGITAL AUDIO TEXT COMPACT disc DIGITAL AUDIO	–
RAM	DVD-A	DVD-V		VCD		CD	WMA MP3 JPEG

Use discs with the above logos and that conform to specifications. The unit cannot play other discs correctly. Do not use irregularly shaped discs (e.g. heart-shaped), as these can damage the unit.

It may not be possible to play CD-R, CD-RW, DVD-R and DVD-RAM in all cases due to the type of disc or condition of the recording.

■ Discs that cannot be played

DVD-ROM, CD-ROM, CDV, CD-G, +RW, DVD-RW, CVD, SACD, Divx Video Discs, Photo CD, DVD-RAM that cannot be removed from their cartridge, 2.6-GB and 5.2-GB DVD-RAM, and "Chaoji VCD" available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.

■ Region number

The player plays DVD-Video marked with labels containing the region number or "**ALL**".

Region	Number	Example
U.S.A. and Canada	1	1 ALL 1 2 4
Asia	3	3 ALL 2 3 6
Australia and N.Z.	4	4 ALL 2 4 6

■ Built-in decoders

DOLBY DIGITAL

DIGITAL dts SURROUND

This unit has Dolby Digital and DTS decoders so you can enjoy these systems in stereo without connecting a separate decoder.

■ Video systems

Units for Asia, Australia and N.Z.:

- This unit can play PAL and NTSC, but your television must match the system used on the disc.
- PAL discs cannot be correctly viewed on an NTSC television.
- This unit can convert NTSC signals to PAL 60 for viewing on a PAL television (➜ page 18, Video—NTSC Disc Output).
- Output is interlace (576I) when playing PAL discs.

Units for the U.S.A. and Canada:

NTSC is used. This unit converts still pictures on PAL system DVD-Audio discs for play on NTSC video systems. The picture is compressed to show it in its entirety, but this may cause it to be stretched vertically.

■ Playing DVDs and Video CDs

The producer of these discs can control how they are played so you may not always be able to control play as described in these operating instructions (for example if the play time is not displayed or if a Video CD has menus). Read the disc's instructions carefully.

■ DVD-RAM discs

The DVD-RAM you can play on this unit are those recorded with DVD video recorders, DVD video cameras, personal computers, etc. using Version 1.1 of the Video Recording Format (a unified video recording standard).

- Remove discs from their cartridges before use and return them when you are finished, making sure that the labels of the disc and cartridge face the same way.
- Some parts of the disc, for example where one program ends and another begins, may not play smoothly.

■ DVD-R discs

Panasonic DVD-R recorded and finalized on a Panasonic DVD video recorder or DVD video camera are played as DVD-Video on this unit.

■ CD-R and CD-RW discs

This unit can play CD-R/RW (audio recording disc) recorded with CD-DA, video CD, SVCD (conforming to IEC62107), WMA, MP3, or JPEG. Close the session or finalize after recording.

See page 11 for more information about WMA, MP3, and JPEG.

■ HighMAT discs

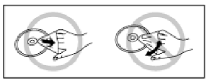
This unit is compatible with HighMAT discs containing WMA, MP3, and/or JPEG files.

■ Disc structure

Disc structure and the labels given to the items on discs depend on the disc type.

Track:	the smallest division on DVD-Audio, CDs, and Video CDs, or a single WMA/MP3 file.
Chapter:	the smallest division on DVD-Video.
Group:	collections of tracks on DVD-Audio and equivalent to folders or albums on data discs.
Title:	the largest division on DVD-Video, usually an entire movie.
Program:	the division on DVD-RAM equivalent to a single recording.
Picture:	a single JPEG file.
Play list:	the largest grouping on a HighMAT disc, or a group of scenes on DVD-RAM.
Scene:	DVD-RAM program sections specified and grouped into play lists on a DVD video recorder.
Content:	covers tracks and pictures on HighMAT discs.

■ To clean discs



DVD-Audio, DVD-Video, Video CD, CD

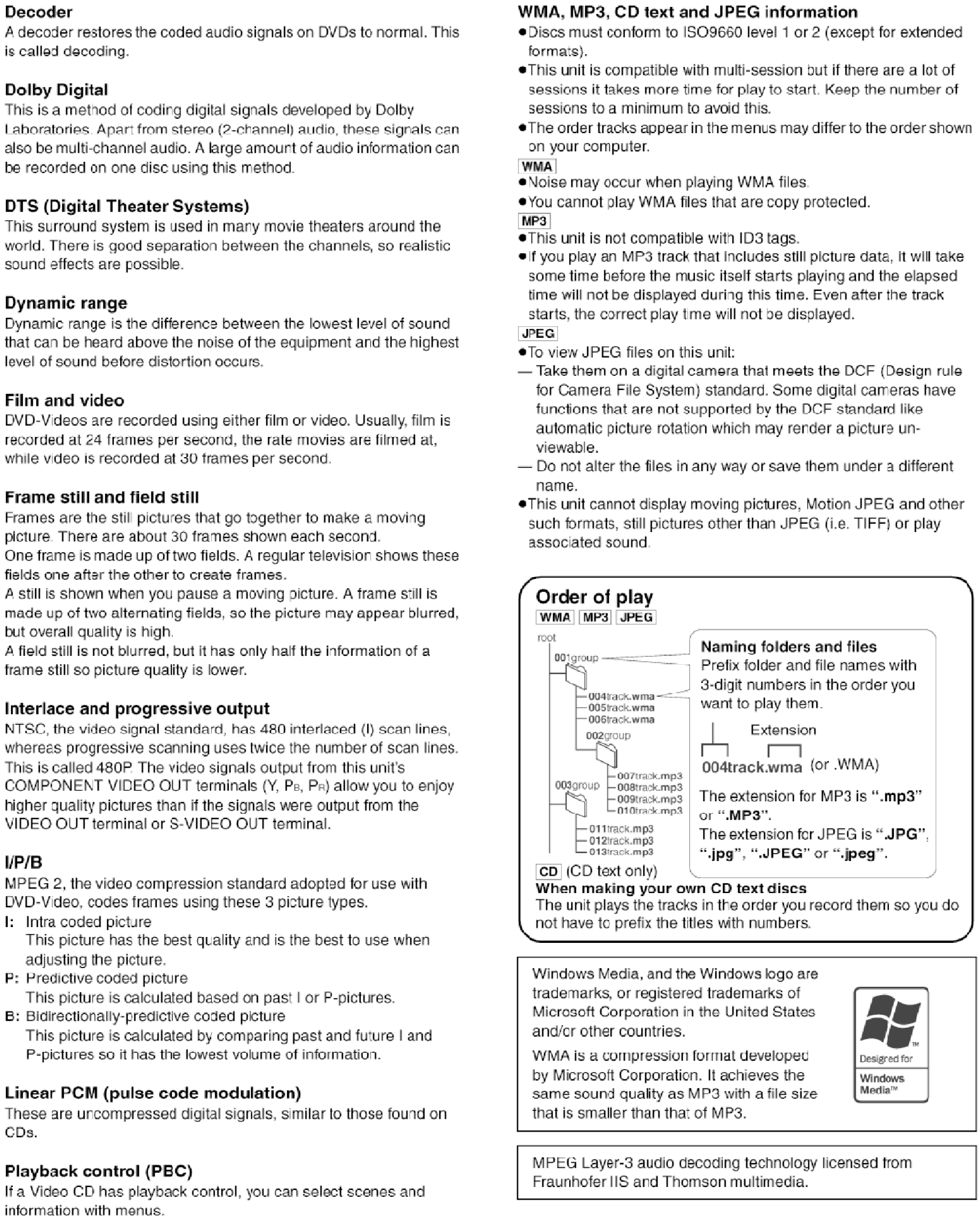
Wipe with a damp cloth and then wipe dry.

DVD-RAM, DVD-R

- Clean only with an optional DVD-RAM/PD disc cleaner (LF-K200DCA1, where available).
- Never use cloths or cleaners for CDs etc.

■ Handling precautions

- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do not attach labels or stickers to discs. (Do not use discs with exposed adhesive from tape or left over peeled-off stickers.)
- Do not use scratch-proof protectors or covers.
- Do not use discs printed with label printers available on the market.



Decoder
A decoder restores the coded audio signals on DVDs to normal. This is called decoding.

Dolby Digital
This is a method of coding digital signals developed by Dolby Laboratories. Apart from stereo (2-channel) audio, these signals can also be multi-channel audio. A large amount of audio information can be recorded on one disc using this method.

DTS (Digital Theater Systems)
This surround system is used in many movie theaters around the world. There is good separation between the channels, so realistic sound effects are possible.

Dynamic range
Dynamic range is the difference between the lowest level of sound that can be heard above the noise of the equipment and the highest level of sound before distortion occurs.

Film and video
DVD-Videos are recorded using either film or video. Usually, film is recorded at 24 frames per second, the rate movies are filmed at, while video is recorded at 30 frames per second.

Frame still and field still
Frames are the still pictures that go together to make a moving picture. There are about 30 frames shown each second.
One frame is made up of two fields. A regular television shows these fields one after the other to create frames.
A still is shown when you pause a moving picture. A frame still is made up of two alternating fields, so the picture may appear blurred, but overall quality is high.
A field still is not blurred, but it has only half the information of a frame still so picture quality is lower.

Interlace and progressive output
NTSC, the video signal standard, has 480 interlaced (I) scan lines, whereas progressive scanning uses twice the number of scan lines. This is called 480P. The video signals output from this unit's COMPONENT VIDEO OUT terminals (Y, P_B, P_R) allow you to enjoy higher quality pictures than if the signals were output from the VIDEO OUT terminal or S-VIDEO OUT terminal.

I/P/B
MPEG 2, the video compression standard adopted for use with DVD-Video, codes frames using these 3 picture types.
I: Intra coded picture
This picture has the best quality and is the best to use when adjusting the picture.
P: Predictive coded picture
This picture is calculated based on past I or P-pictures.
B: Bidirectionally-predictive coded picture
This picture is calculated by comparing past and future I and P-pictures so it has the lowest volume of information.

Linear PCM (pulse code modulation)
These are uncompressed digital signals, similar to those found on CDs.

Playback control (PBC)
If a Video CD has playback control, you can select scenes and information with menus.

WMA, MP3, CD text and JPEG information
- Discs must conform to ISO9660 level 1 or 2 (except for extended formats).
- This unit is compatible with multi-session but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.
- The order tracks appear in the menus may differ to the order shown on your computer.

WMA
- Noise may occur when playing WMA files.
- You cannot play WMA files that are copy protected.

MP3
- This unit is not compatible with ID3 tags.
- If you play an MP3 track that includes still picture data, it will take some time before the music itself starts playing and the elapsed time will not be displayed during this time. Even after the track starts, the correct play time will not be displayed.

JPEG
- To view JPEG files on this unit:
  - — Take them on a digital camera that meets the DCF (Design rule for Camera File System) standard. Some digital cameras have functions that are not supported by the DCF standard like automatic picture rotation which may render a picture un-viewable.
  - — Do not alter the files in any way or save them under a different name.
- This unit cannot display moving pictures, Motion JPEG and other such formats, still pictures other than JPEG (i.e. TIFF) or play associated sound.

Order of play
WMA **MP3** **JPEG**

Naming folders and files
Prefix folder and file names with 3-digit numbers in the order you want to play them.

The extension for MP3 is "**.mp3**" or "**.MP3**".
The extension for JPEG is "**.JPG**", "**.jpg**", "**.JPEG**" or "**.jpeg**".

CD (CD text only)
When making your own CD text discs
The unit plays the tracks in the order you record them so you do not have to prefix the titles with numbers.

Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

WMA is a compression format developed by Microsoft Corporation. It achieves the same sound quality as MP3 with a file size that is smaller than that of MP3.

Designed for Windows Media™

MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.

15. About HighMAT

15.1. What is HighMAT?

This word combines the abbreviations of Matsushita Electric Industrial Co., Ltd. and High Performance Media Access Technology, and is a trademark of Microsoft Corporation. The products with the HighMAT logo shown below are made according to the HighMAT standard. HighMAT is a a format that allows users to save digital contents such as photographs, audio, and images on a CD. This gives consistency in the way of reading data when general consumer products (such as DVD players) and PCs are used, and thus, it is easy to operate for the user.

15.2. Why use HighMAT?

Up to now, there was no harmonized standard fro playing digital content stored in CD-ROM formats (including CD-R) on consumer products like DVD players.Therefore, we used to have

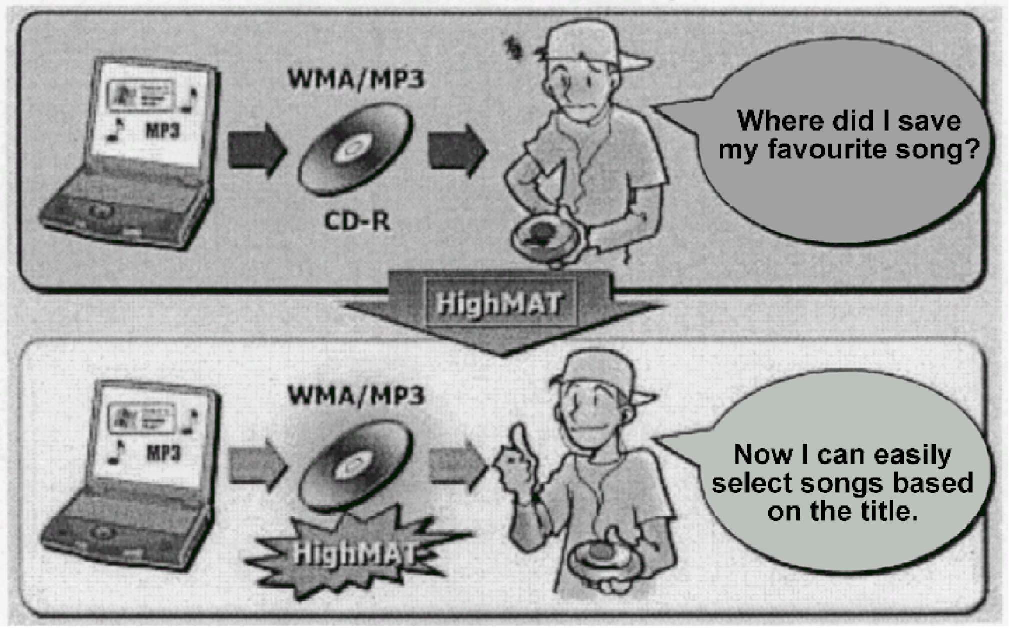
probblems such as follow:

- There was no common play list or attached information on contents, which is called metadata.
- The data compression method differed according to the equipment.
- As the number of CD-ROMs recorded increased retrieved the contents became more difficult.
- Because display and operation methods were different depending on the equipment, the play order of the content on the same disc could change.

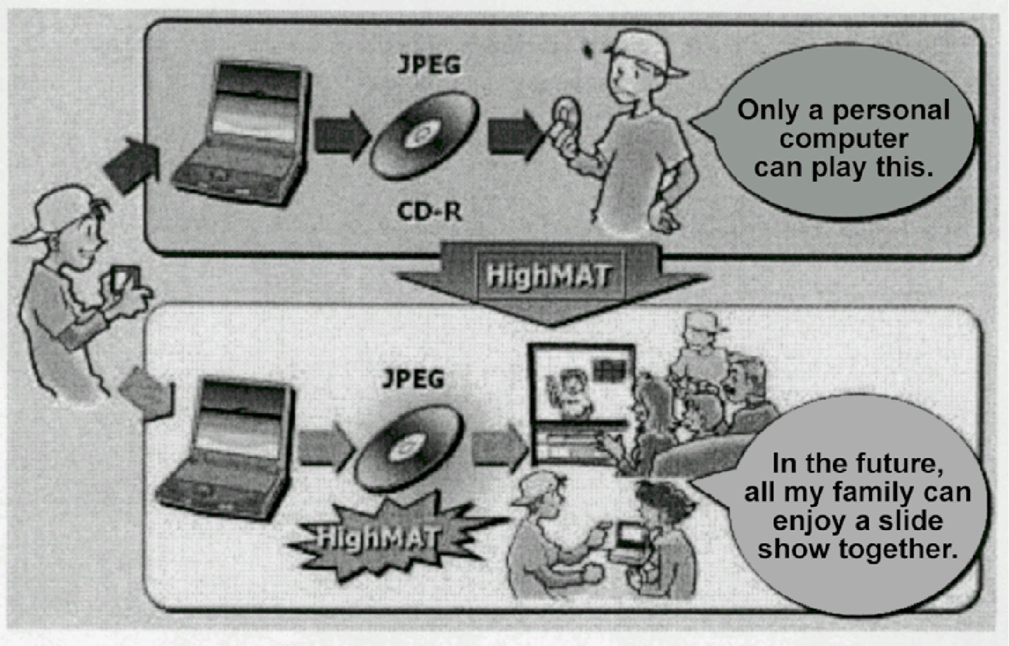
15.3. The advantages of using HighMAT

Applying the HighMAT standard will solve the following problems and will improve usability.

- It will create a common user interface for both PC and consumer products.


MP3
WMA/MP3
CD-R
Where did I save my favourite song?
HighMAT
MP3
WMA/MP3
HighMAT
Now I can easily select songs based on the title.

- Regardless of the types of consumer products, such as DVD players, portable CD players, car stereos, and micro computers, a consistent way to pay for digital content will be created and it will make it easier to retrieve data.

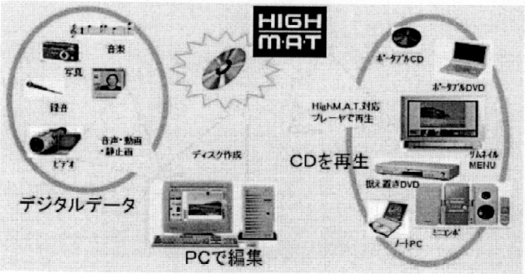

JPEG
CD-R
Only a personal computer can play this.
HighMAT
JPEG
HighMAT
In the future, all my family can enjoy a slide show together.

- You can also play digital content on the disc, which was created in accordance with the HighMAT format with a conventional CD-ROM player.

15.4. Outline of the HighMAT standard

1. Recording medium

- CD-R/CD-RW
- Supports ISO 9660 Level Expanded Joliet
- For multiple session


HIGH M·A·T
音楽
写真
録音
音声・動画
・静止画
ビデオ
デジタルデータ
ディスク作成
PCで編集
ポータブルCD
ポータブルDVD
HighM.A.T.対応
プレーヤで再生
CDを再生
サムネイル
MENU
据え置きDVD
ミニコンポ
ノートPC

2. Support data format

- Level 1 player: WMA, MP3 (MPEG-1 Audio Layer 3)
- Level 2 player: WMA, MP3 (MPEG-1 Audio Layer 3), JPEG
- Level 3 player: WMA, MP3 (MPEG-1 Audio Layer 3), JPEG, WMV, MPEG4 (optional)

3. Limitation of data format

- WMA, MP3 (MPEG-1 Audio Layer 3) 64 kbps - 160.999 kbps, 44.1 KHz, stereo, fixed bit rate/ variable bit rate.
- WMA, V2 and above, excluding Lossless/Voice/Pro
- JPEG: Max 6M pixel, Maximum file size: 3 MB

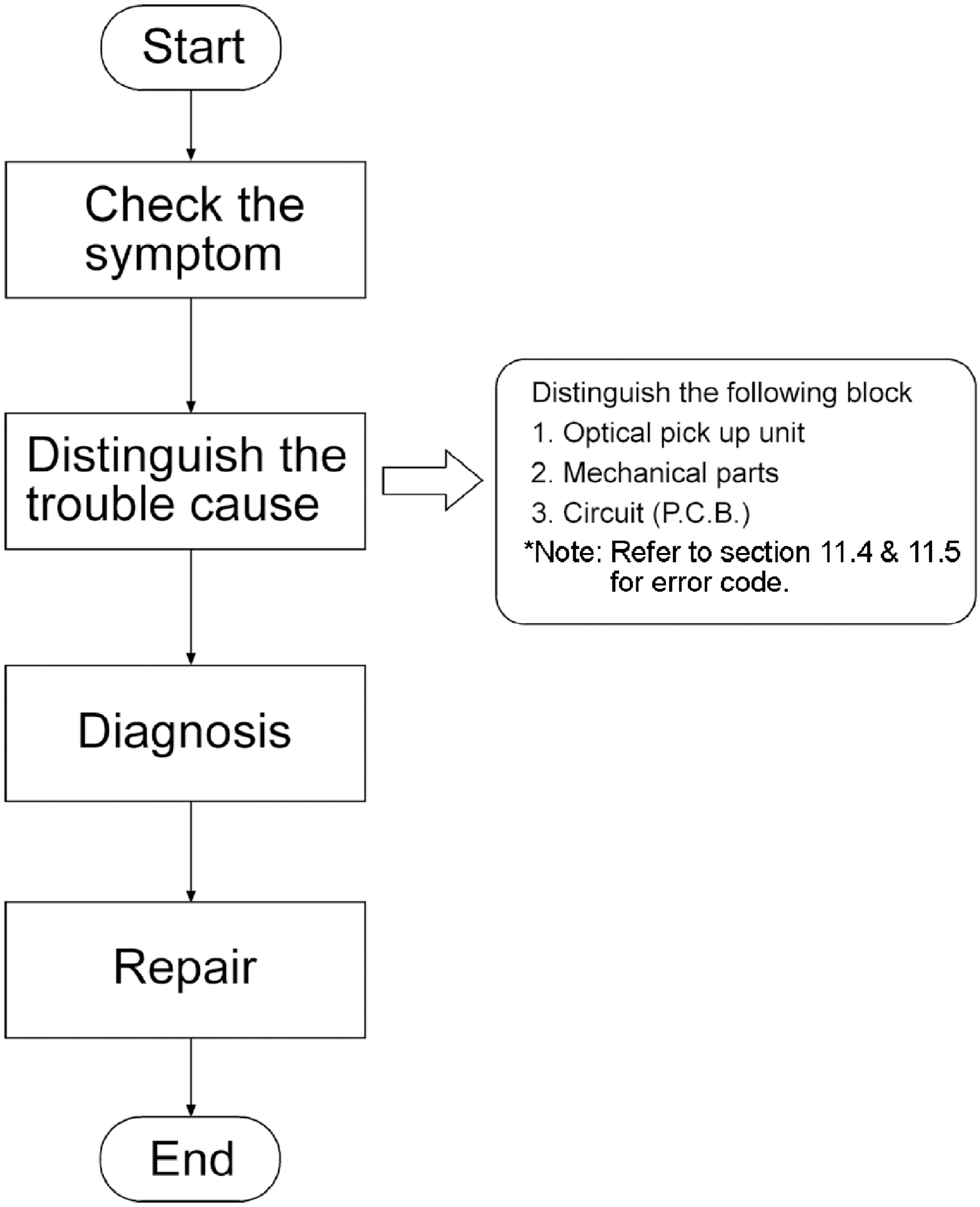
4. Limitations regarding the number of files on the media, etc.

- Total number of audio files: Maximum 450
- Total number of still picture files: Maximum 999
- Total number of animation files: Maximum 200
- Total number of directories: Maximum 400
- Length of a file name: Maximum 108 characters (Unicode)
- Total number of play lists: Maximum 200
- Number of contents in the playlist: Maximum 900

5. Composition of HighMAT disc

- Menu: Classified for the navigation of the HighMAT digital contents. When menu selected, its submenu or the play list will be displayed.
- Play list: A list in which one or more digital contents are arranged in order
- Group: Sub-divided group of a play list.
- Digital Contents: Audio, still picture, and animation data.

16. Procedure for repairing the set


Start
Check the symptom
Distinguish the trouble cause
Diagnosis
Repair
End

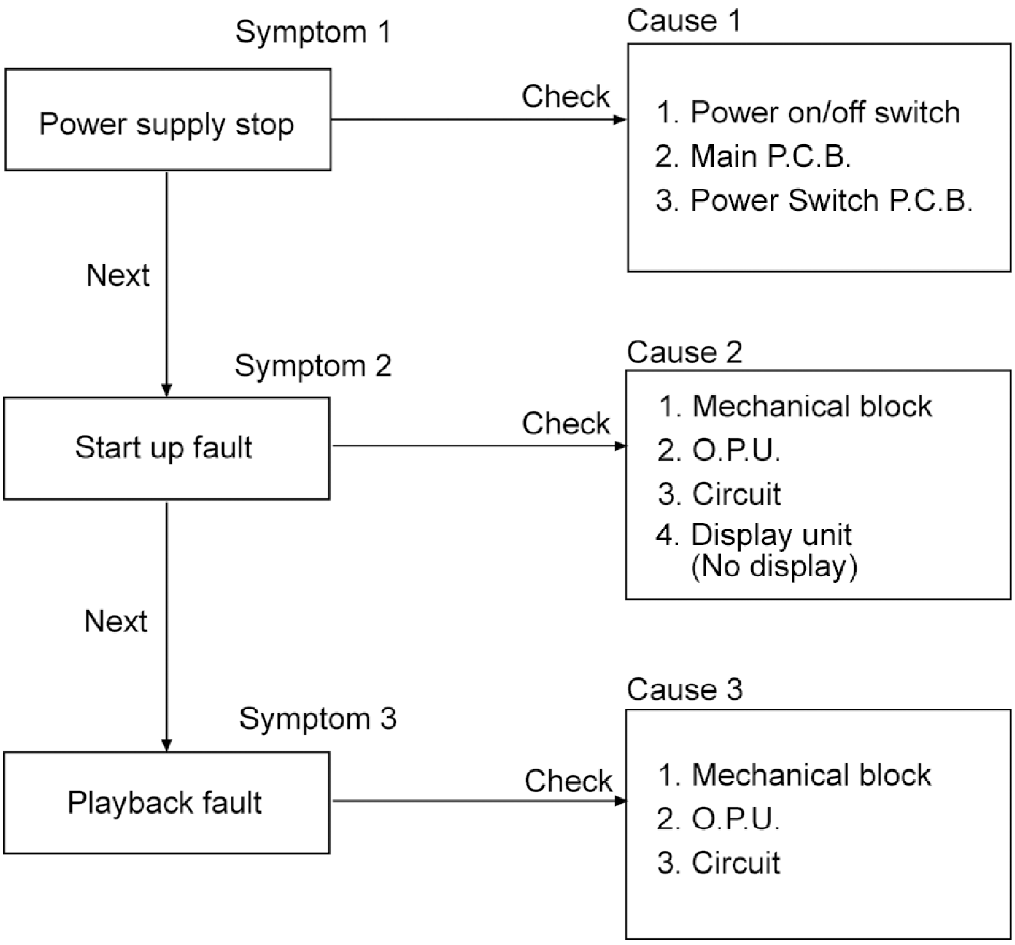
Distinguish the following block

1. Optical pick up unit
2. Mechanical parts
3. Circuit (P.C.B.)

*Note: Refer to section 11.4 & 11.5 for error code.

16.1. Distinguish the trouble cause

- Check flow


Symptom 1
Power supply stop
Check
Cause 1
1. Power on/off switch
2. Main P.C.B.
3. Power Switch P.C.B.
Next
Symptom 2
Start up fault
Check
Cause 2
1. Mechanical block
2. O.P.U.
3. Circuit
4. Display unit
(No display)
Next
Symptom 3
Playback fault
Check
Cause 3
1. Mechanical block
2. O.P.U.
3. Circuit

How to distinguish the trouble

1. **View mechanical part if visual damage occurred.**
   Confirm the movement of mechanical parts assembly (tray ass'y, loading mechanism ass'y, etc.).
2. **Diagnose if Optical Pickup Unit is faulty (refer to diagnosis of Optical Pickup Unit).**
3. **If mechanism and OPU are OK, it is P.C.B.**

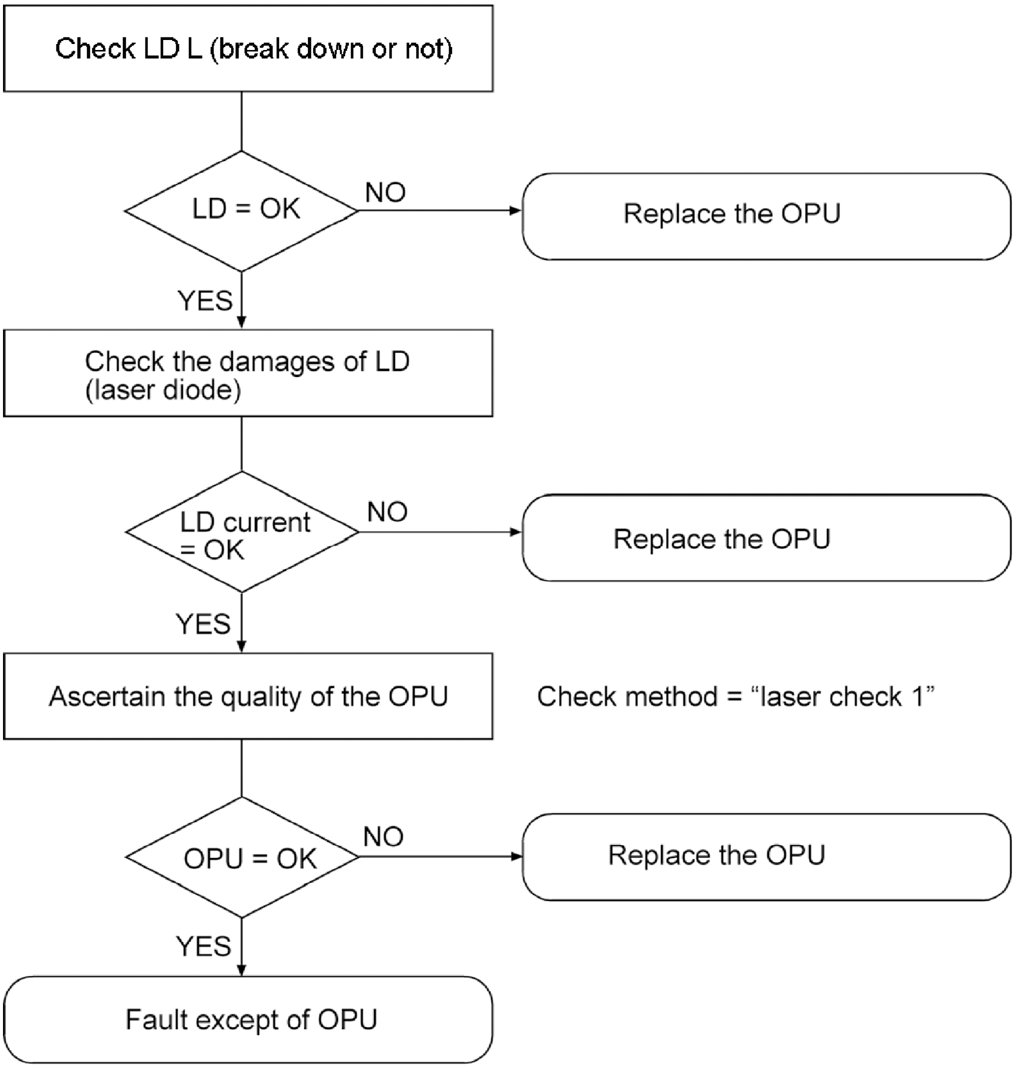
Cause 1	Possible fault
1. Power ON/OFF switch	**Power switch (S912), system cable (JK300)**
2. Main P.C.B.	**JK300, IC3, IC4, D756**

Cause 2	Possible fault
1. Mechanical block	Tray and loading mechanical block, traverse unit
2. O.P.U.	Refer to the diagnosis of OPU
3. Circuit	LD drive, servo (Traverse, Focus, Tracking) Disc sensor Signal processing (FORE, SODC, DV1 etc.)

Cause 3	Possible fault
1. Mechanical block	Traverse block (Tilt adjustment)
2. O.P.U.	Refer to the diagnosis of OPU
3. Circuit	Servo (Focus, tracking) Signal processing (FORE, SODC, DV1 etc.)

16.2. Diagnosis of Optical Pick-up Unit

Diagnosis Method
Diagnose the OPU by the following procedure


Check LD L (break down or not)
LD = OK
NO
Replace the OPU
YES
Check the damages of LD (laser diode)
LD current = OK
NO
Replace the OPU
YES
Ascertain the quality of the OPU
Check method = “laser check 1”
OPU = OK
NO
Replace the OPU
YES
Fault except of OPU

Note : When LD does not emit light after replacing the OPU, check the LD drive circuit in the module P.C.B.

How to distinguish Laser destruction/damage
Confirmation 1
Remove cover of mechanism block so that you will see the lens of optical pickup.
Confirm emission of laser at the moment when power switch is turned on.
If there is no laser emission, laser diode is faulty.
Confirmation 2
While holding “Pause” and “Open/Close” button, press “Display” button on the remote controller. Unit display laser current on FL.
From the reading of display, you can judge if laser diode is damaged or not.
Reading on the right side should be less than 70. If reading is more than 70, laser is damaged.

How to confirm if Optical Pickup is OK
Confirmation 1

1. **Confirmation of jitter value with test disc. (Refer below for how to check jitter)**
2. **Lens cleaning.**
3. **Reconfirm jitter value.**
4. **Perform tile adjustment. (Refer to tilt adjustment)**
5. **Reconfirm jitter value. (To confirm jitter value, while pressing “Pause” and “Open/Close” button, press numeric “5” on remote controller.)**
   Unit display jitter value on FL.

Confirmation 2
If servo is very unstable due to optical error and you cannot confirm jitter value, clean the lens and check appearance of pick up unit (cutting coil of actuator, etc), then check circuitry.

17. Disassembly and Main Component Replacement Procedures

“ATTENTION SERVICER”

Some chassis components may have sharp edges.
Be careful when disassembling and servicing.

1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For assembly after operation checks or replacement, reverse the respective procedures.**
   Special reassembly procedures are described only when required.
3. **Select items from the following index when checks or replacement are required.**

- **Disassembly the Top Cabinet**
- **Disassembly the Front Panel**
- **Disassembly the Tray Assembly**
- **Removal of the Tray Base Guide (L) and Tray Base Guide (R)**
- **Removal of the Rotary Tray**
- **Removal of the Open Lock Gear**
- **Removal of the Close Lock Gear**

- Removal of the Tray Motor P.C.B.and Sensor P.C.B.

- Removal of the CD Traverse Unit

- Removal of the Pulley Gear

- Removal of the Loading Motor P.C.B.

- Removal of the Drive Gear (A) & (B)

- Disassembly the Fixed Plate, Magnet and Clamper

- Removal of the Cam Gear & Support Piece

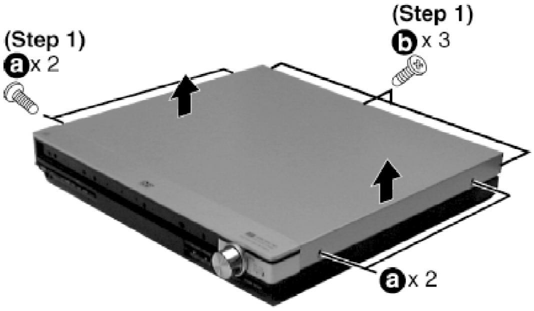
- Removal of the Slide Plate (L) & (R) and Changer Lever

- Assembly of Tray Base

17.1. Disassembling the Top Cabinet

Step 1 Remove 7 screws.

Step 2 Remove the top cabinet in the direction of arrow.

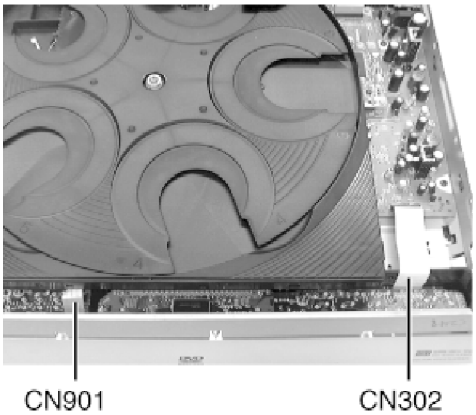


17.2. Disassembling the Front Panel

- Follow the (Step 1) - (Step 2) of Item 17.1.

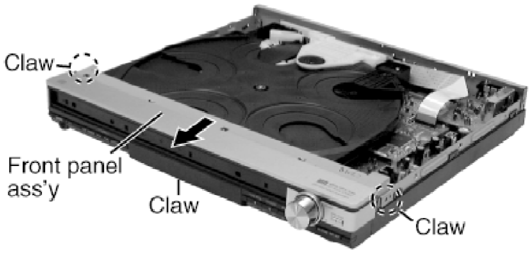
Step 1 Pull out the FFC from connectors (CN6004 & CN6001).

Step 2 Remove 1 screw.

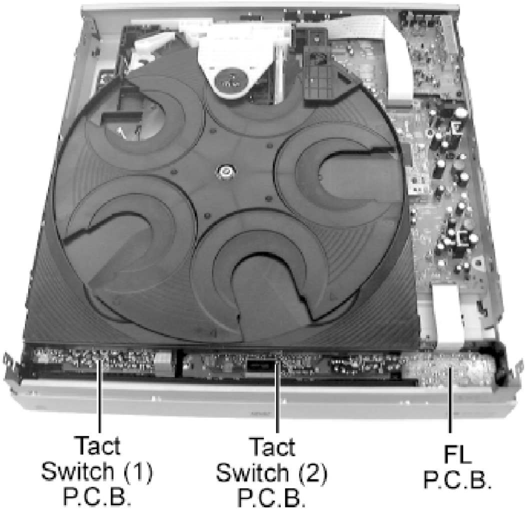


Step 3 Pull the front panel ass’y in both direction of arrow to unlock the claws of the chassis ass’y.

Step 4 Remove the front panel ass’y in the direction of arrow.


Claw
Front panel ass'y
Claw
Claw

- Checking of Tact Switch (1) P.C.B., Tact Switch (2) P.C.B. and FL P.C.B.

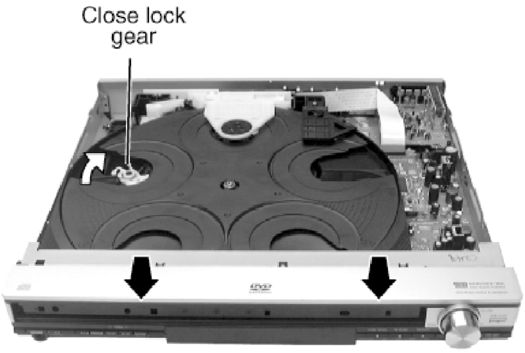

Tact Switch (1) P.C.B.
Tact Switch (2) P.C.B.
FL P.C.B.

17.3. Disassembling the Tray Assembly

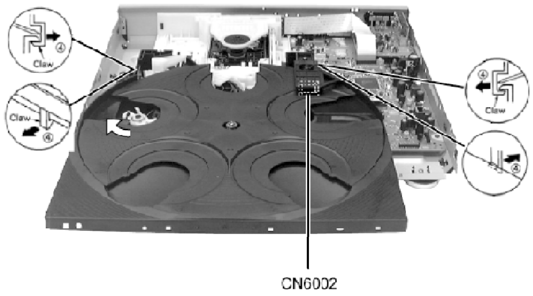
- Follow the (Step 1) - (Step 2) of Item 17.1.

- Follow the (Step 1) - (Step 4) of Item 17.2.

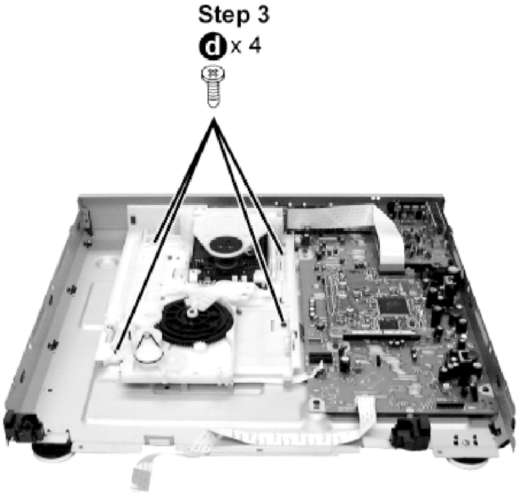
Step 1 Keep the close lock gear pressed in clockwise, move the tray assembly in the direction of the arrow.


Close lock gear

Step 2 Hold close lock gear, push and release the 4 claws in the direction of arrow, and then remove the tray assembly.

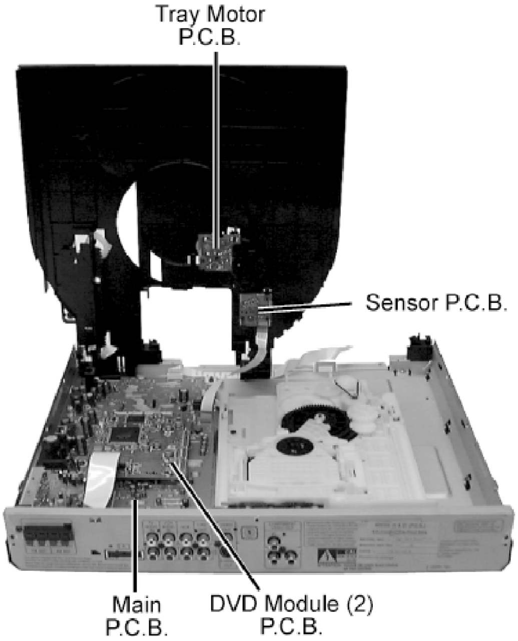

Claw
Claw
Claw
CN6002

Step 3 Pull out FFC CN6002.



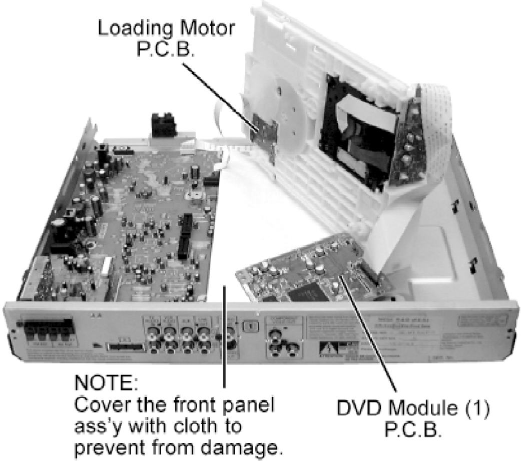
Step 4 Remove 4 screws.

- Checking of Main P.C.B., Tray Motor, DVD Module (2) P.C.B. and Sensor P.C.B.


Tray Motor P.C.B.
Sensor P.C.B.
Main P.C.B.
DVD Module (2) P.C.B.

- Checking of Loading Motor P.C.B. and DVD Module (1) P.C.B.

Step 5 Upset base assembly in vertical position.

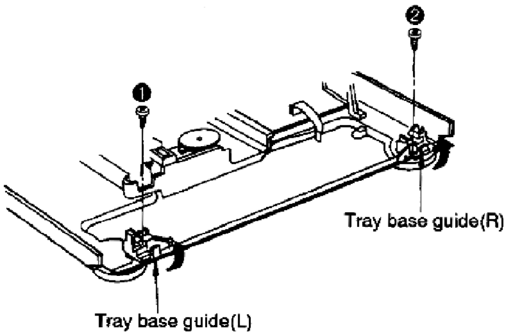

Loading Motor
P.C.B.
NOTE:
Cover the front panel ass'y with cloth to prevent from damage.
DVD Module (1)
P.C.B.

17.4. Removal of the Tray Base Guide (L) and Tray Base Guide (R)

- Follow the (Step 1) - (Step 2) of Item 17.1.

- Follow the (Step 1) - (Step 4) of Item 17.2.

- Follow the (Step 1) - (Step 5) of Item 17.3.


❷
❶
Tray base guide(R)
Tray base guide(L)

Step 1 Remove the 2 screws.

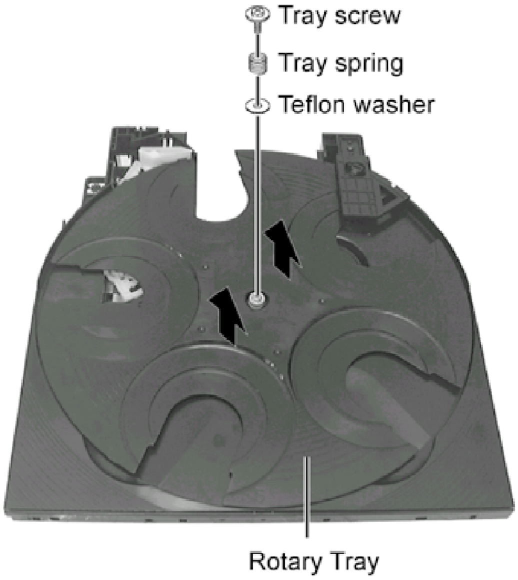
Step 2 Remove the tray base guide (L) and tray guide (R) in the direction of arrow.

17.5. Removal of the Rotary Tray

- Follow the (Step 1) - (Step 2) of Item 17.1.

- Follow the (Step 1) - (Step 4) of Item 17.2.

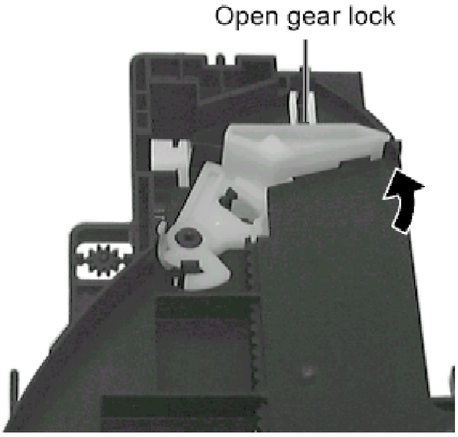
- Follow the (Step 1) - (Step 5) of Item 17.3.


Tray screw
Tray spring
Teflon washer
Rotary Tray

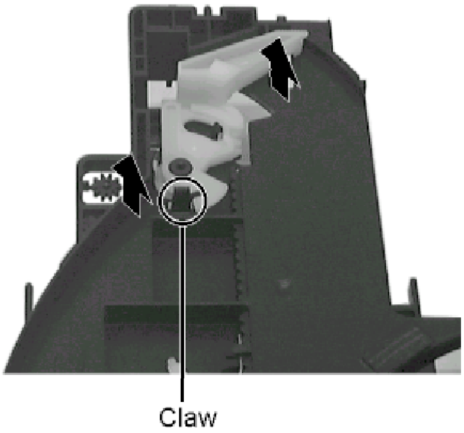
Step 1 Remove tray screw, tray spring and teflon washer.
Step 2 Remove rotary tray.

17.6. Removal of the Open Lock Gear

- Follow the (Step 1) - (Step 2) of Item 17.1.
- Follow the (Step 1) - (Step 4) of Item 17.2.
- Follow the (Step 1) - (Step 5) of Item 17.3.
- Follow the (Step 1) - (Step 2) of Item 17.5.


Open gear lock

Step 1 Rotate open lock gear in the direction of arrow. (Anti-clockwise)



Step 2 Release claw of open lock gear, remove open lock gear in the direction of arrow .

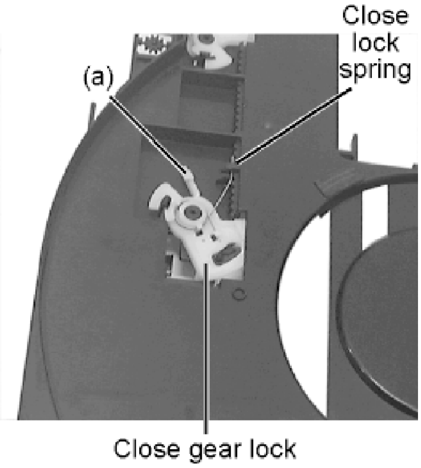
17.7. Removal of the Close Lock Gear

- Follow the (Step 1) - (Step 2) of Item 17.1.

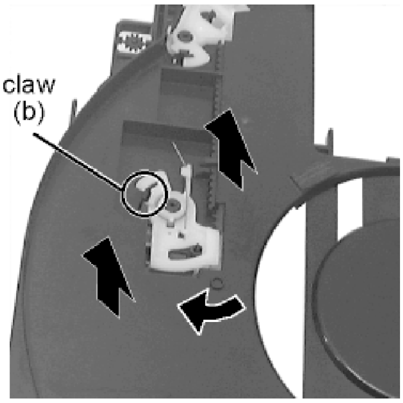
- Follow the (Step 1) - (Step 4) of Item 17.2.

- Follow the (Step 1) - (Step 5) of Item 17.3.

- Follow the (Step 1) - (Step 2) of Item 17.5.


Close lock spring
(a)
Close gear lock

Step 1 Hook close lock spring to claw (a).



Step 2 Rotate close lock gear to direction of arrow, press claw (b) and pull out close lock gear.

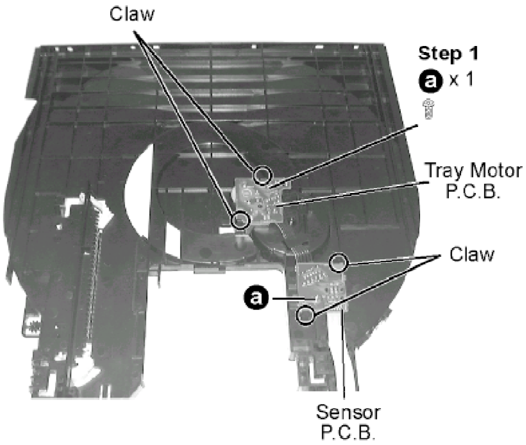
17.8. Removal of the Tray Motor P.C.B. and Sensor P.C.B.

- Follow the (Step 1) - (Step 2) of Item 17.1.

- Follow the (Step 1) - (Step 4) of Item 17.2.

- Follow the (Step 1) - (Step 5) of Item 17.3.

Step 1 Remove 2 screws.



Step 2 Release 4 claws at Tray Motor P.C.B. and Sensor P.C.B..

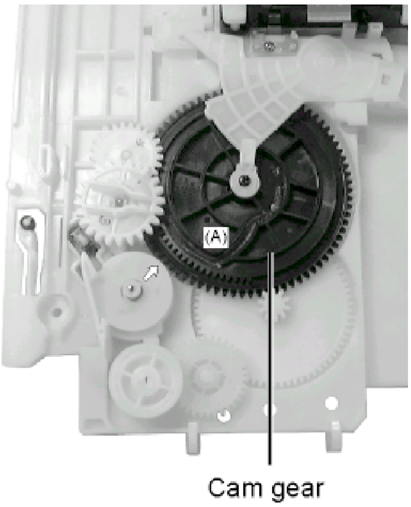
17.9. Removal of the CD Traverse Unit

- Follow the (Step 1) - (Step 2) of Item 17.1.

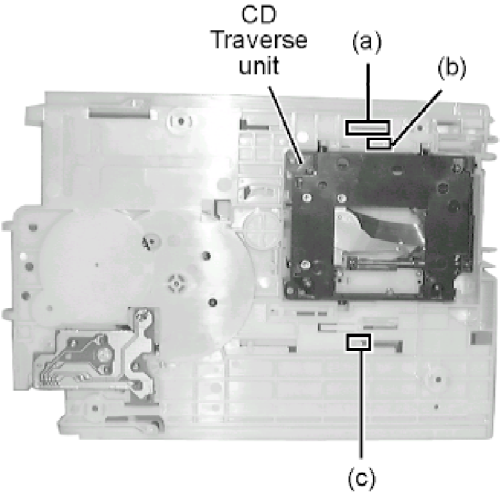
- Follow the (Step 1) - (Step 4) of Item 17.2.

- Follow the (Step 1) - (Step 5) of Item 17.3.

Step 1 Rotate cam gear anti-clockwise. (Align at position (B) as marking on gear with arrow)



Step 2 Flip the base mech unit in vertical position.


CD
Traverse
unit
(a)
(b)
(c)

Step 3 Press upward (a), push backward (b) and press to left (c) to release CD traverse unit.

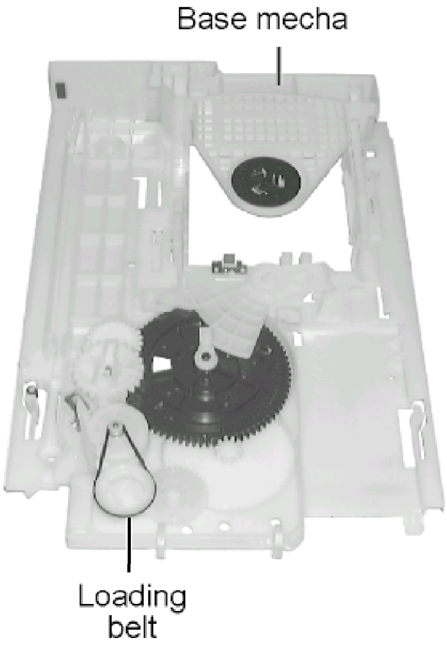
17.10. Removal of the Pulley Gear

- Follow the (Step 1) - (Step 2) of Item 17.1.

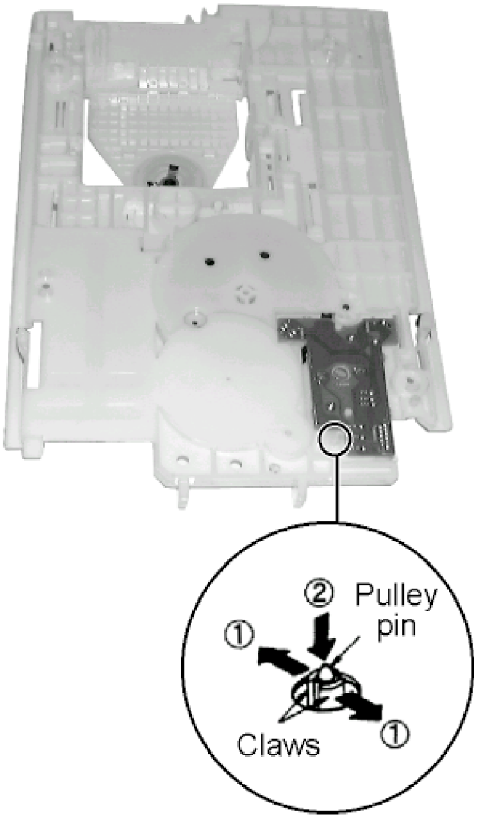
- Follow the (Step 1) - (Step 4) of Item 17.2.

- Follow the (Step 1) - (Step 5) of Item 17.3.

Step 1 Remove of the loading belt.


Base mecha
Loading
belt

Step 2 Flip the base mecha.

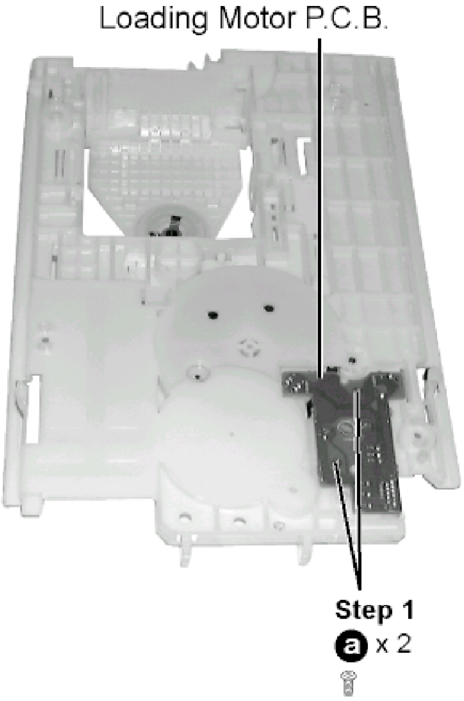


Step 3 Release the 2 claws in the direction of arrow (1), and then push the pulley pin in the direction of arrow (2).

17.11. Removal of the Loading Motor P.C.B.

- **Follow the (Step 1) - (Step 2) of Item 17.1.**
- **Follow the (Step 1) - (Step 4) of Item 17.2.**
- **Follow the (Step 1) - (Step 5) of Item 17.3.**

Step 1 Remove 2 screws.


Loading Motor P.C.B.
Step 1
a x 2

Step 2 Remove Loading Motor P.C.B.

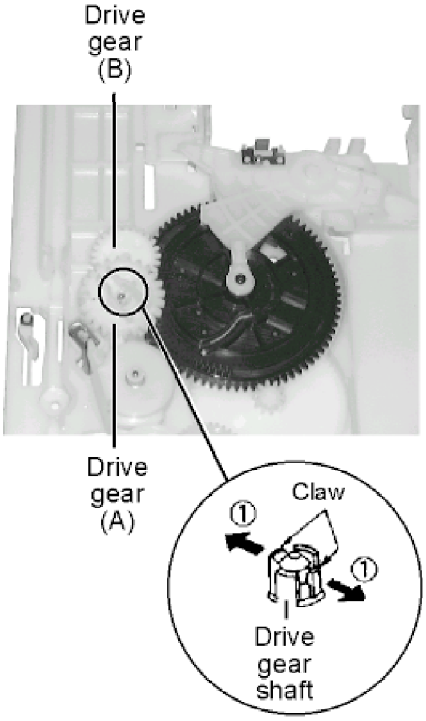
17.12. Removal of the Drive Gear (A) & (B)

- Follow the (Step 1) - (Step 2) of Item 17.1.

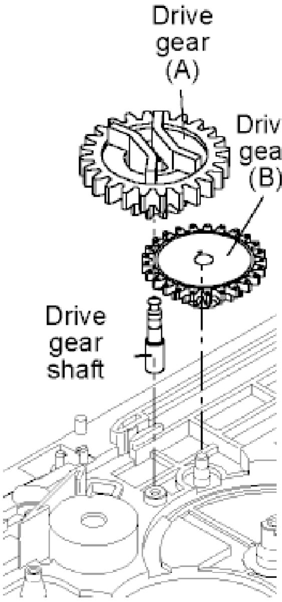
- Follow the (Step 1) - (Step 4) of Item 17.2.

- Follow the (Step 1) - (Step 5) of Item 17.3.

Step 1 Release the claw in the direction of arrow (1), and then push drive gear shaft up.


Drive gear (B)
Drive gear (A)
Claw
①
①
Drive gear shaft

Step 2 Remove Drive Gear (A) and Drive Gear (B).


Drive gear (A)
Drive gear (B)
Drive gear shaft

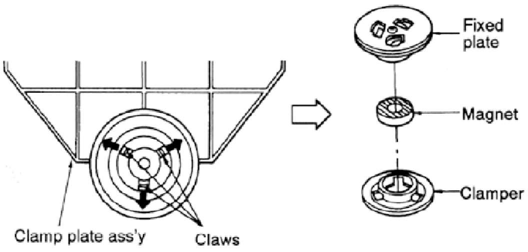
17.13. Disassembling the Fixed Plate, Magnet and Clamper

- Follow the (Step 1) - (Step 2) of Item 17.1

- Follow the (Step 1) - (Step 4) of Item 17.2.

- Follow the (Step 1) - (Step 5) of Item 17.3.

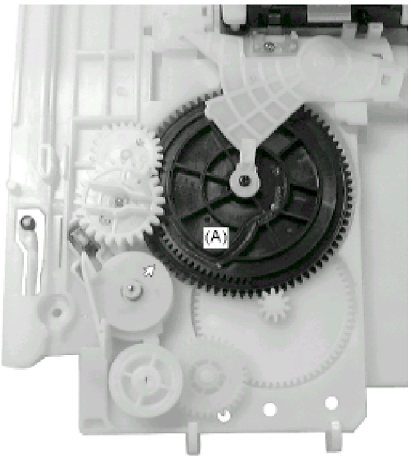
Step 1 Release 3 claws in the direction of arrow.


Fixed plate
Magnet
Clamper
Clamp plate ass'y
Claws

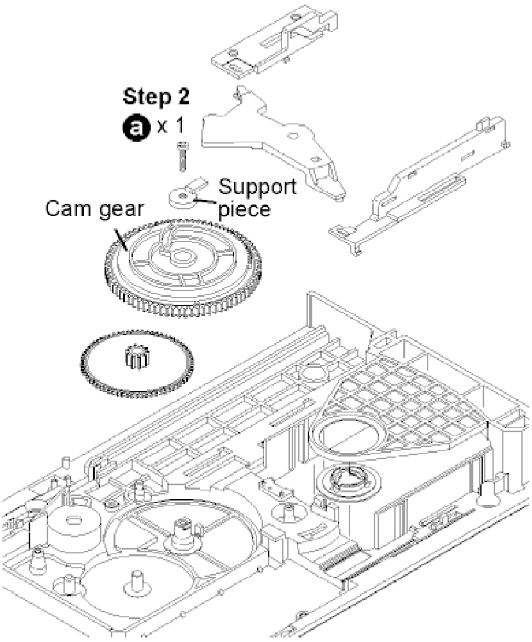
17.14. Removal of the Cam Gear & Support Piece

- Follow the (Step 1) - (Step 5) of Item 17.3.

Step 1 Rotate (A) in cam gear anti-clockwise.



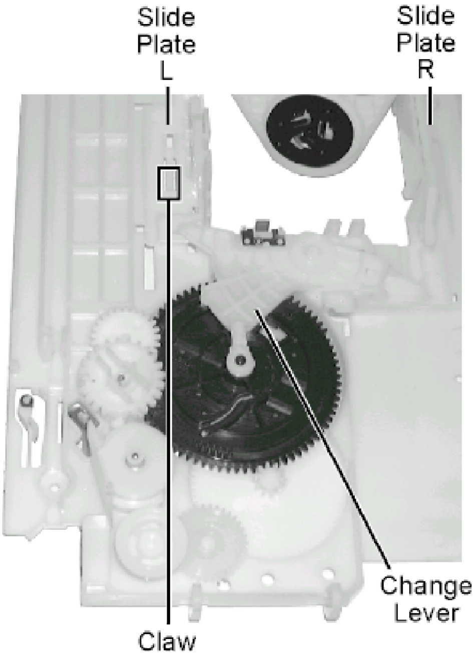
Step 2 Remove 1 screw and support piece.


Step 2
ⓐ x 1
Support piece
Cam gear

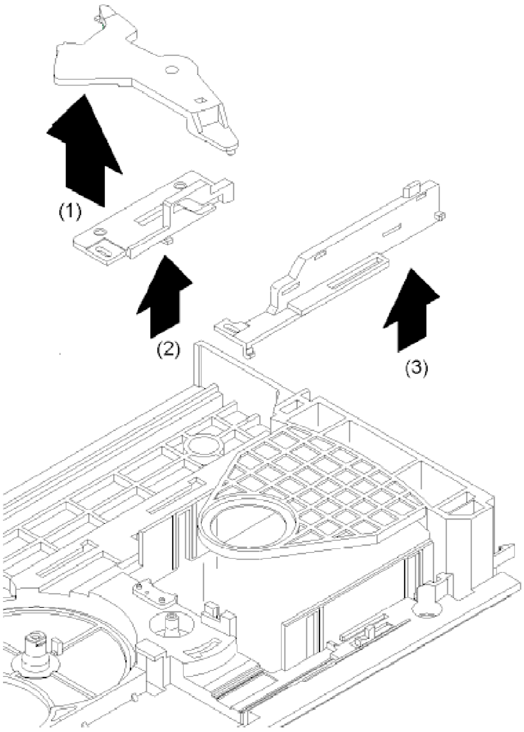
17.15. Removal of the Slide Plate (L) & (R) and Change Lever

- Follow the (Step 1) - (Step 5) of Item 17.3.

Step 1 Press the claw and push the Slide Plate (L) up.

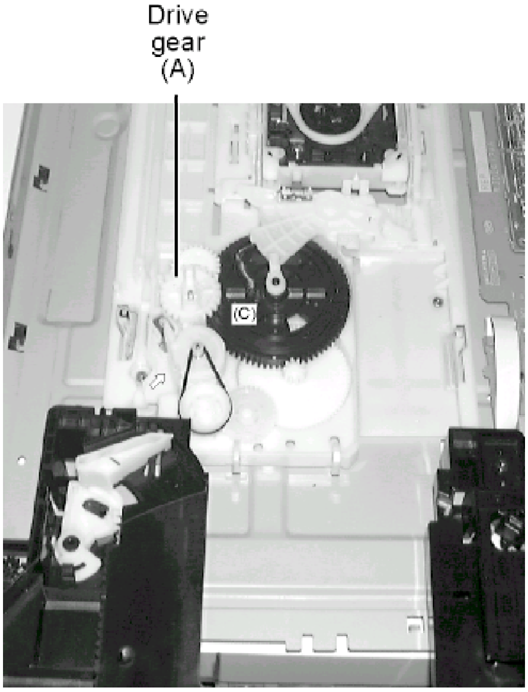

Slide Plate L
Slide Plate R
Change Lever
Claw

Step 2 Remove slide plate (L) & (R) and change lever as arrow shown.

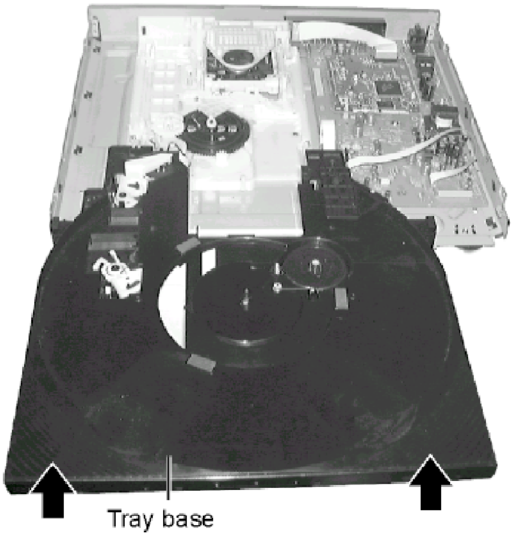


17.16. Assembly of Tray Base

Step 1 Rotate cam gear anti-clockwise. Align at position (C) as marking on gear with arrow.



Step 2 Make sure drive gear (A) at vertical position.



Step 3 Push tray base to the direction of arrow shown.

18. Adjustment Procedure

18.1. Required Tools and Equipment

18.1.1. Usage Equipment

Purpose of Use	Tools/Equipment	Model/Product Number
Tilt adjustment	DVD test disc	DVDT-S15 or DVDT-S01
	Hexagonal wrench`	Available on the market (2mm)
Others	Screw lock	RZZ0L01
	Grease	RFKXGAK152, RFKXPG641
Checking	CD test disc	PVCD-K06 and any commercially available disc
	VCD test disc	
	Recovery disc	RFKZD03R004

18.1.2. Necessity of Adjustment

18.1.2.1. Necessity of Optical Adjustment

- Before starting optical system adjustment, be sure to wear proper protection gear against static electricity.
- Optical adjustment (optical pickup tilt adjustment) is required after following parts are replaced:
  1. Optical pickup
  2. Spindle motor assembly
  3. Optical pickup peripherals such as a rail, etc.

Note:

Optical adjustment is not necessary after replacement of other parts inside traverse, however, may require when picture deterioration is detected. Optical adjustment cannot be applied to the inside of optical pickup. When a traverse unit is replaced, the adjustment is not necessary.

18.1.3. Storing and Handling Test Discs

Surface precision is vital for DVD test discs. Be sure to store and handle them carefully.

- **Do not leave the discs uncovered on the work desk or other places after use.**
- **Handle the discs carefully to prevent scratches. Put each disc in its case and place it in the standing position. Store the discs in a cool place and avoid direct sunlight or air conditioner.**
- **Accurate adjustment cannot be expected with a disc warped against a flat surface. Obtain a new test disc for optical adjustment.**
- **If a warped disc is used, adjustment would result incorrectly, and other discs could not be used.**

18.1.4. Optical Adjustment (Optical Pickup Tilt Adjustment)

Measurement point	Adjustment point	Mode	Disc
	Tangential adjustment screw / Tilt adjustment screw	T1 (inner track) replay / T43 (outer track) replay	DVDT-S15 or DVD
Measuring equipment		**Adjustment value**	
None (LCD display of the player is used.)		Adjust that jitter value becomes minimum.	

18.1.4.1. Adjustment Procedure

1. **While the player is stopped and no disc is inserted, select the DVD function. Press and hold down the ■ button on the player and the number button, “5” on the remote controller unit.**
2. **Check that “J_xxx_yyy_zz” is appearing on the display.**

For your information:

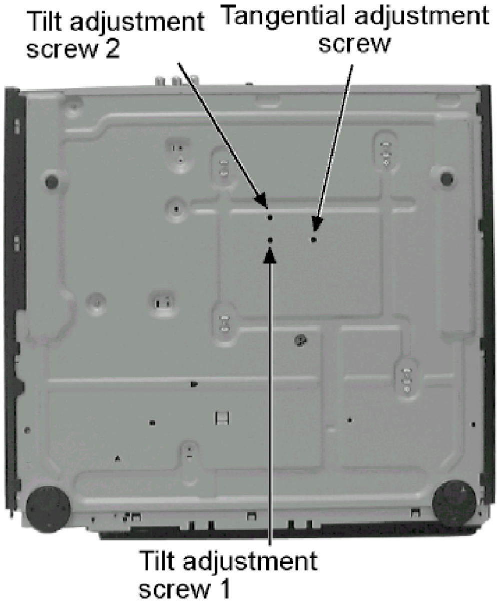
The values, “yyy” and “zz” are not associated to jitter value. / “yyy” indicates the frequency of error occurrence. / “zz” indicates the focus drive value.

Note:

Jitter value appears on the display.

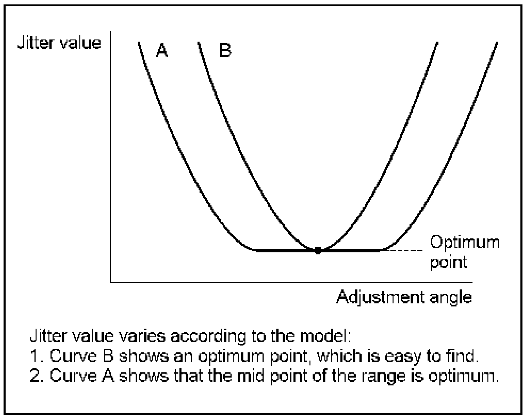
3. **Replay T01 (inner track) of the test disc.**
4. **Adjust till the jitter value becomes minimum, using a tangential adjustment screw. <Fig. 18-1>**
5. **Replay T43 (outer track) of the test disc.**
6. **Adjust till the jitter value becomes minimum, using a tilt adjustment screw 1. <Fig. 18-1>**
7. **Replay T43 (outer track) of the test disc.**
8. **Adjust till the jitter value becomes minimum, using a tilt adjustment screw 2.<Fig. 18-1>**
9. **Adjust till the jitter value becomes, using the tilt adjustment screws 1 and 2 alternatively.**

Fig. 18-1


Tilt adjustment screw 2
Tangential adjustment screw
Tilt adjustment screw 1

18.1.4.2. Tips

1. **Apply the tangential adjustment first and then the tilt adjustment.**
2. **Repeat the adjustment a couple of times to find the optimum point.**
3. **Complete with the tilt adjustment.**



Jitter value varies according to the model:
1. Curve B shows an optimum point, which is easy to find.
2. Curve A shows that the mid point of the range is optimum.

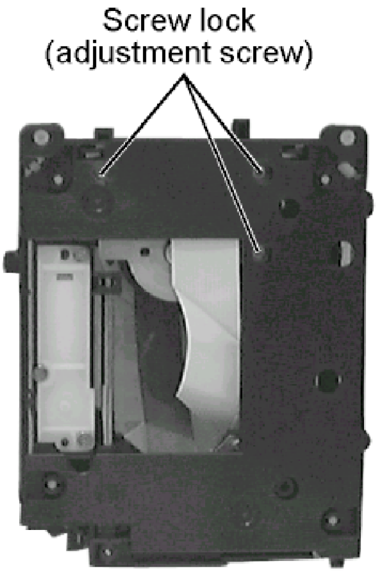
18.1.4.3. Check After Adjustment

Replay test discs or other commercial discs in order to confirm that no picture deterioration or sound skipping is detected in the inner, middle, and outer tracks. After this, fasten each adjustment screw securely using a screw lock.

18.1.4.4. Procedure for Screw Lock

1. **After adjustment, remove the top cover, clamper base, disc tray and then traverse unit.**
2. **Place the traverse unit upside down, and fasten the adjustment screws with a screw lock. <Fig. 18.2>**
3. **After fastening the screws, assemble in order of the traverse unit, disc tray, clamper base, and then top cover.**

Fig. 18-2



18.2. Tuner Section

18.2.1. AM-IF Alignment

1. **Connect the instrument as shown in Fig.1.**

2. Set the unit to AM mode.

3. Apply signal as shown in Fig. 1 from AM-SG.

4. Adjust Z102 so that the output frequency is maximized in Fig. 2.

Fig.1

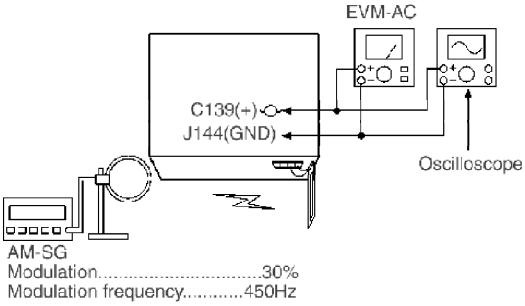
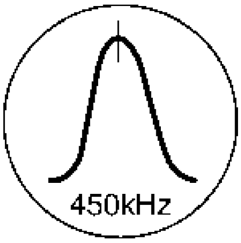

EVM-AC
C139(+)
J144(GND)
Oscilloscope
AM-SG
Modulation..................................30%
Modulation frequency............450Hz

Fig.2



18.2.2. AM RF Adjustment

1. Connect the instrument as shown in Fig. 3.

2. Set the unit to AM mode.

3. Set AM-SG to 520kHz.

4. Receive 520kHz in the unit.

5. Adjust Z101 (OSC) so that the EVM-AC is maximized.

6. Set AM-SG to 600Hz.

7. Receive 600Hz in the unit.

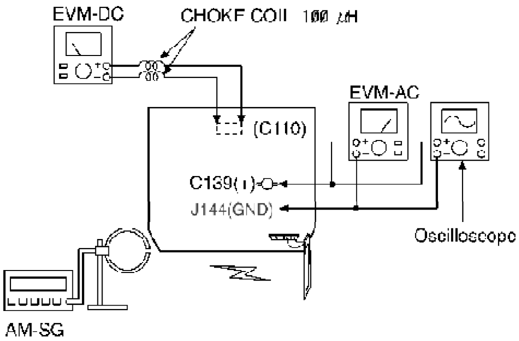
8. Adjust Z101 (ANT) so that the EVM-SG is maximized.

9. Set AM-SG to 520kHz.

10. Receive 520kHz in the unit.

11. Adjust Z101 (OSC) so that the EVM-DC value is with 1.1±0.5V.

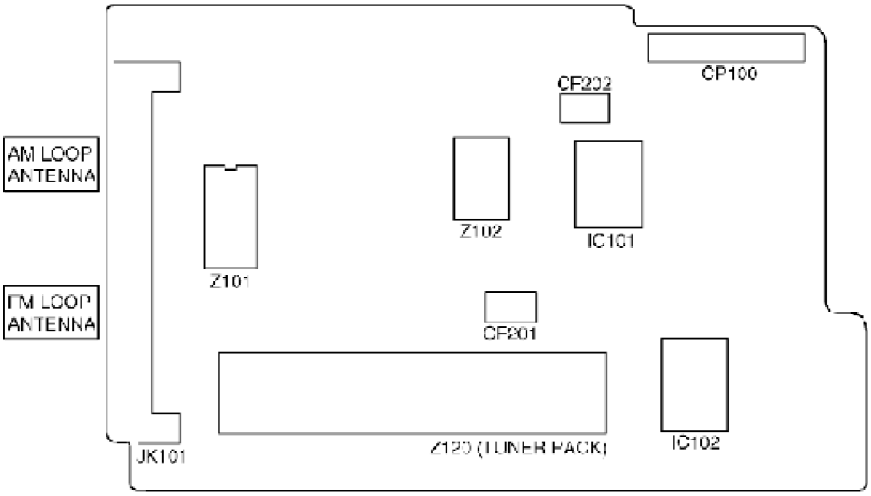
Fig.3


EVM-DC
CHOKE COIL 100 µH
EVM-AC
(C110)
C139(+)
J144(GND)
Oscilloscope

AM-SG
Modulation.............................. 30%
Modulation frequency.......... 400Hz

18.3. Alignment Points

18.3.1. Adjustment Point


CP100
CF202
AM LOOP ANTENNA
FM LOOP ANTENNA
Z101
Z102
IC101
CF201
JK101
Z120 (TUNER PACK)
IC102

19. Block Diagram

20. Schematic Diagram

(All schematic diagrams may be modified at any time with the development of the new technology)

Note:

S900

: Ex Disc switch

S901

: Disc Skip switch

S902

: Disc Open/Close switch

S903

: Play switch

S904

: Pause switch

S905

: Stop switch

S906

: SEL switch

S907

: Tune Down switch

S908

: Tune Up switch

S909

: Progressive switch

S910

: CSM switch

S912

: Power switch

S9001

: Loading switch

VR900

: Volume Jog

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

No mark	**: Playback**	**<< >>**	**Rec**	**< >**	**: FM**
(( ))	**: CD**	**( )**	**: AM**	**[ ]**	**: AUX**

- Importance safety notice :

Components identified by ⚠ ; mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified

parts shown in the parts list.

Caution !

IC, LSI and VLSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

- **Cover the parts boxes made of plastics with aluminium foil.**
- **Put a conductive mat on the work table.**
- **Ground the soldering iron.**
- **Do not touch the pins of IC, LSI or VLSI with fingers directly.**

21. Printed Circuit Board

22. Wiring Connection Diagram

23. Parts Location and Replacement Parts List

Notes:

- **Important safety notice:**
  Components identified by ⚠ mark have special characteristics important for safety.
  Furthermore, special parts which have purposes of fire-retardent (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.
  When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.
- **The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour)**
  Parts without these indications can be used for all areas.
- **Warning: This product uses a laser diode. Refer to caution statements on "Precaution of Laser Diode".**
- **Capacitor values are in microfarads (μF) unless specified otherwise, P= Pico-farads (pF), F= Farads.**
- **Resistance values are in ohms, unless specified otherwise, 1K= 1,000 (OHM).**
- **The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific**

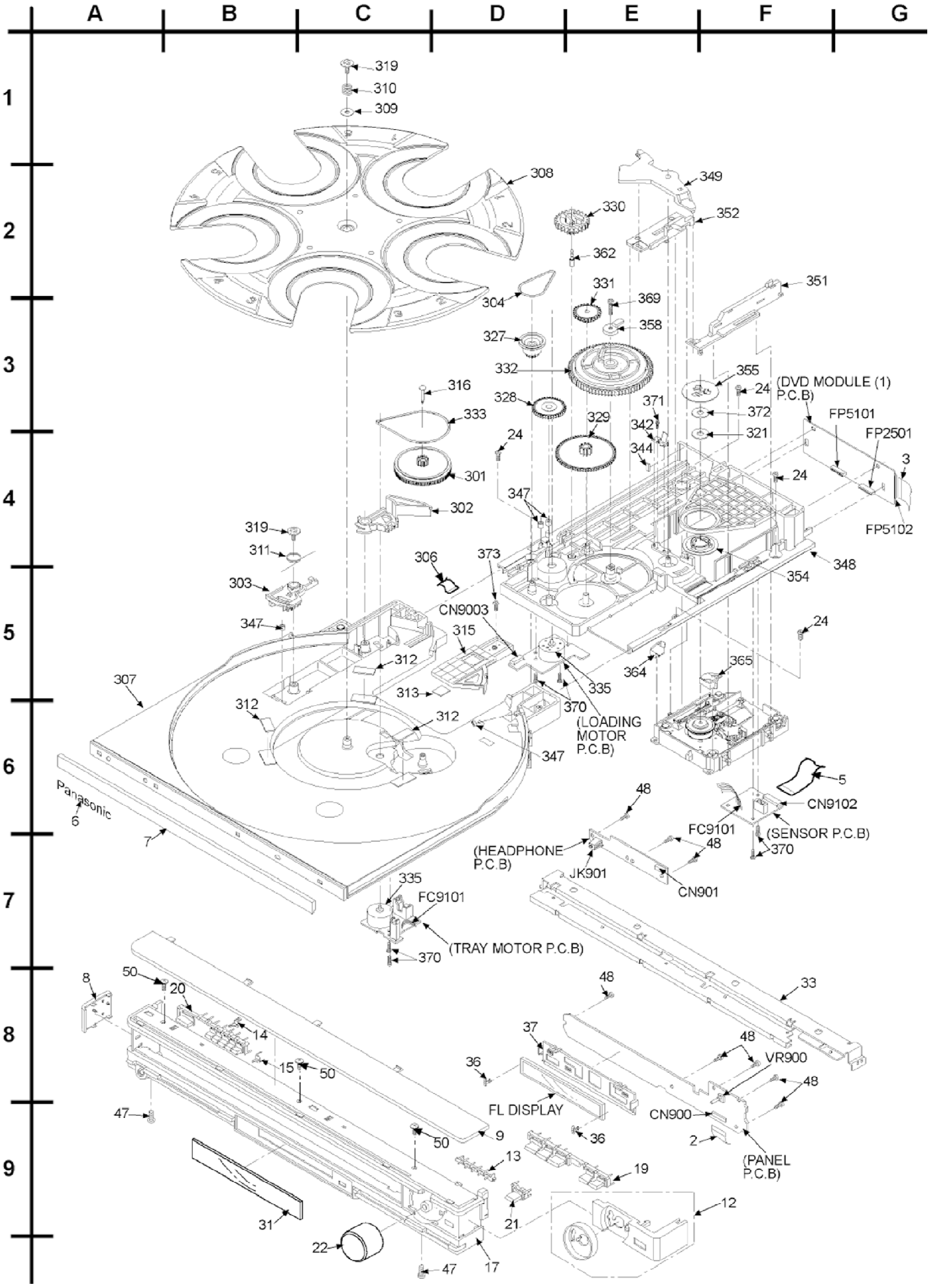
period of time. The retention period of a availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

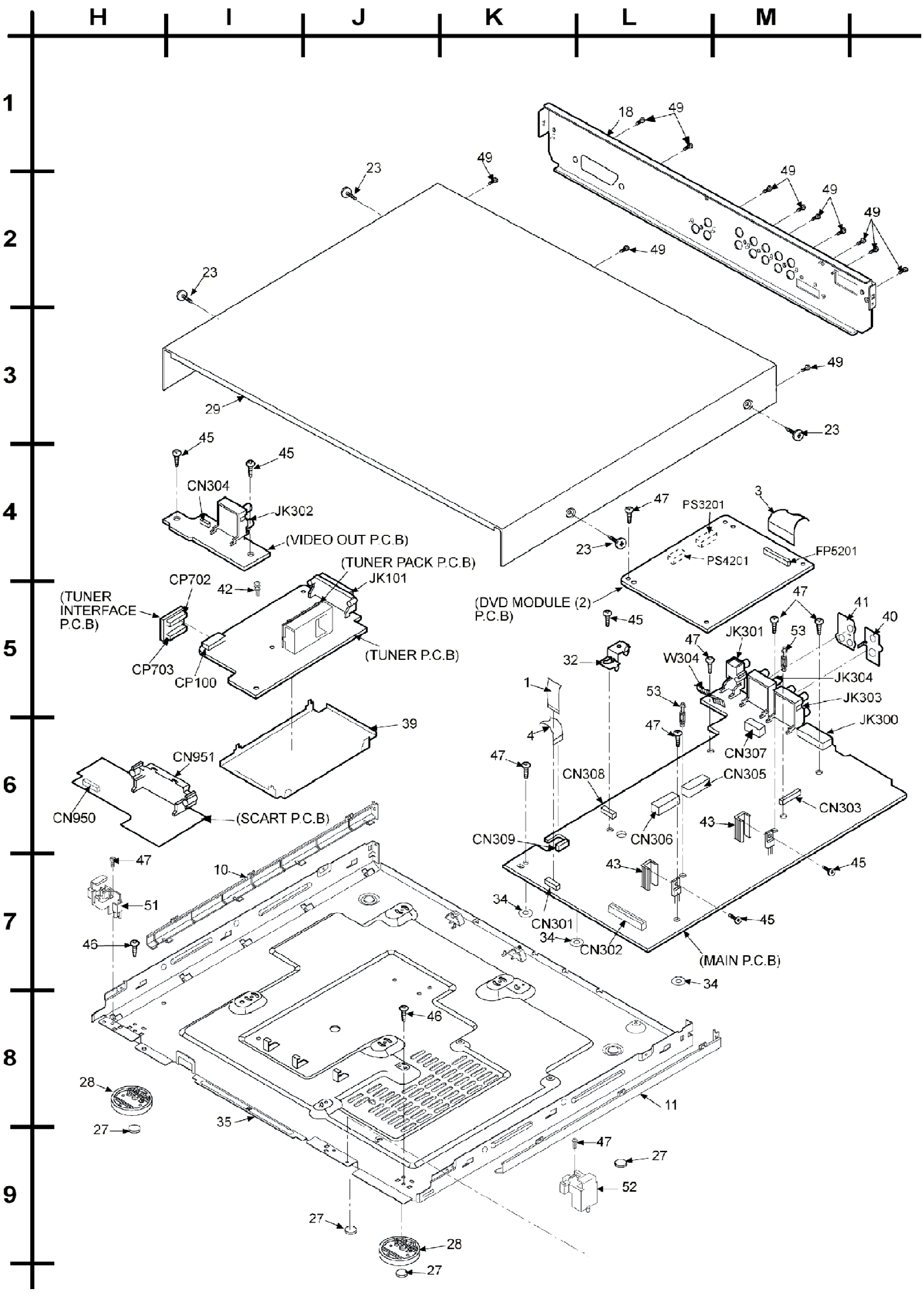
- **[M] Indicates in the Remarks columns indicates parts supplied by PAVCSG.**
- **The “(SF)” mark denotes the standard part.**
- **Reference for O/I book languages are as follows:**

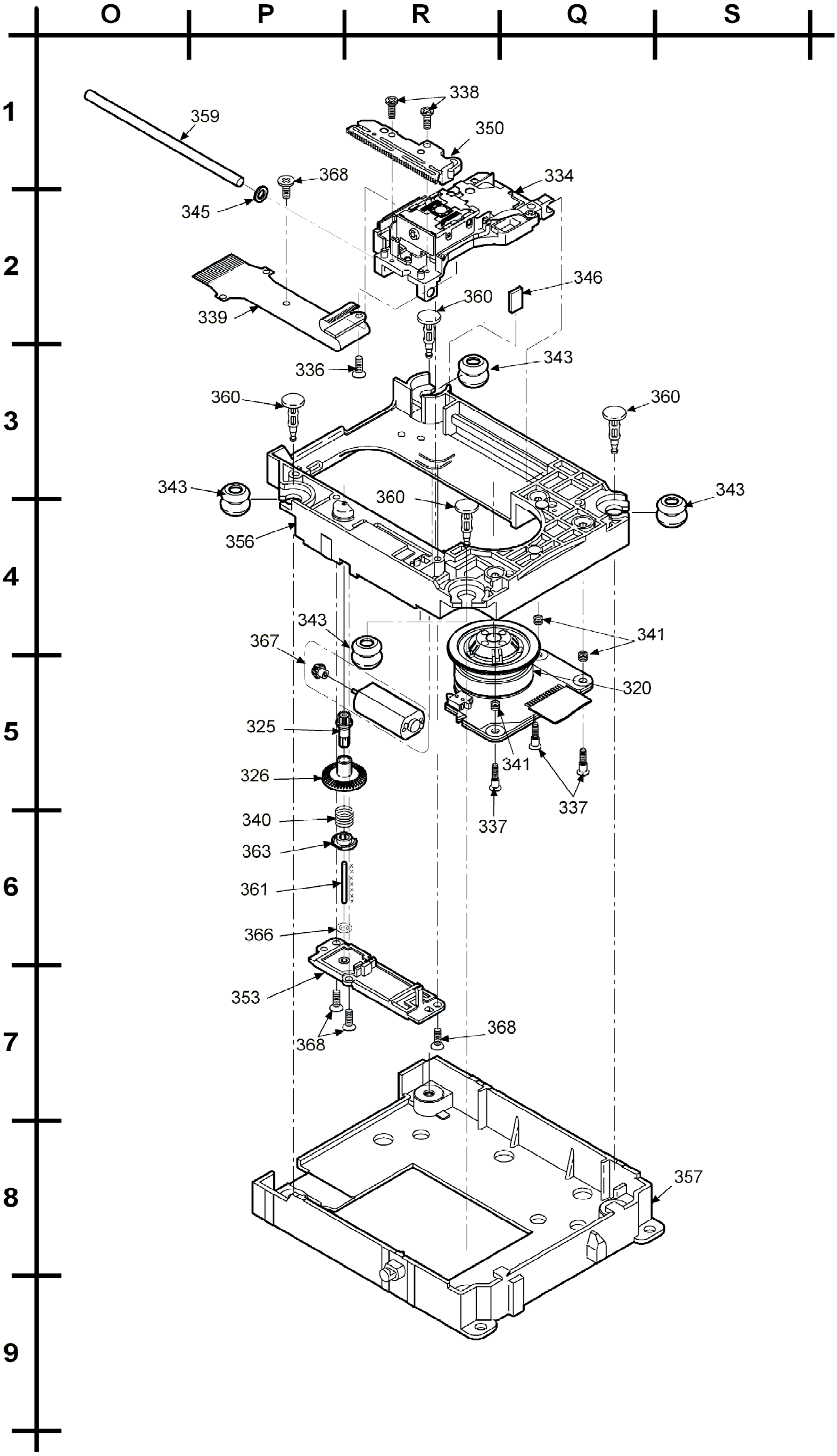
Ar :	**Arabic**	**Du :**	**Dutch**	**It :**	**Italian**	**Sp :**	**Spanish**
Cf :	**Canadian French**	**En :**	**English**	**Ko :**	**Korean**	**Sw :**	**Swedis**
Cz :	**Czech**	**Fr :**	**French**	**Po :**	**Polish**	**Co :**	**Traditio Chinese**
Da :	**Danish**	**Ge :**	**German**	**Ru :**	**Russian**	**Cn :**	**Simplifi Chinese**

23.1. Loading Mechanism, Traverse Unit & Cabinet

23.1.1. Loading Mechanism, Traverse Unit & Cabinet Parts Location


A
B
C
D
E
F
G
(DVD MODULE (1)
P.C.B)
FP5101
FP2501
FP5102
CN9003
(LOADING
MOTOR
P.C.B)
Panasonic
CN9102
FC9101
(SENSOR P.C.B)
(HEADPHONE
P.C.B)
JK901
CN901
FC9101
(TRAY MOTOR P.C.B)
VR900
FL DISPLAY
CN900
(PANEL
P.C.B)


H
I
J
K
L
M
1
2
3
4
5
6
7
8
9
18
49
23
29
45
CN304
JK302
(VIDEO OUT P.C.B)
(TUNER PACK P.C.B)
JK101
CP702
42
(TUNER INTERFACE P.C.B)
CP703
CP100
(TUNER P.C.B)
39
CN951
CN950
(SCART P.C.B)
47
PS3201
3
PS4201
FP5201
(DVD MODULE (2) P.C.B)
41
40
53
JK301
W304
32
1
4
JK304
JK303
JK300
CN307
CN308
CN305
CN303
CN309
CN306
43
CN301
CN302
34
(MAIN P.C.B)
10
51
46
28
27
35
11
52


O
P
R
Q
S

23.1.2. Traverse and Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	REEX0224-1	11P FFC (MAIN-HP)	[M]
2	REEX0225	22P FFC (MAIN-FL)	[M]
3	REEX0249	19P FFC (MAIN-SCA	[M]
4	REEX0285	11P FFC (MECHA-MAIN)	[M]
5	REEX0284	50P FFC (B/E-DRIVE)	[M]
6	RGBX0011-S	PANA BADGE	[M]
7	RGK1578-S	TRAY ORNAMENT	[M]
8	RGK1582-S	SIDE ORNAMENT L	[M]
9	RGK1579A-S	TOP ORNAMENT	[M]
10	RGKX0192-K	SIDE PLATE L	[M]
11	RGKX0193-K	SIDE PLATE R	[M]
12	RGKX0213-S	V/KNOB ORNAMENT UNIT	[M]
13	RGLX0066-Q	5 DISC LIGHTING CHIP	[M]
14	RGLX0067-Q	POWER LIGHT CHIP	[M]
15	RGLX0068-Q	BUTTON LIGHTING CHIP	[M]
17	RGPX0101D-K1	FRONT PANEL	[M]
18	RGRX0026B-A1	REAR PANEL	[M]
19	RGUX0518-K	OPERATION BUTTON	[M]
20	RGUX0519B-K	POWER BUTTON	[M]
21	RGUX0520-S	OPEN/CLOSE BUTTON	[M]
22	RGWX0077-S	VOLUME KNOB	[M]
23	RHD30007-S	SCREW	[M]
24	RHD30107	SCREW	[M]
27	RKA0145-K	CUSHION	[M]
28	RKAX0009-S	FOOT BASE ASS’Y	[M]
29	RKMX0090-S	TOP CABINET	[M]
31	RKWX0200-Q	FL WINDOW	[M]
32	RMAX0057	BE ANGLE B	[M]
33	RMAX0060	PANEL ANGLE	[M]
34	RMFX0022	SPACER	[M]
35	RMKX0074	BOTTOM CHASSIS	[M]
36	RMN0195-1	FL-SUPPORT	[M]
37	RMNX0096-1	FL HOLDER	[M]
39	RSCX0084	TUNER SHIELD PLATE	[M]
40	RSCX0086	V JACK SHIELD PLATE	[M]
41	RSCX0087	RGB SHIELD PLATE	[M]
42	SHR415	PLASTIC RIVET	[M]
43	TUC25628	HEAT SINK	[M]
45	XTB3+10JFZ	SCREW	[M]
46	XTB3+6J	SCREW	[M]
47	XTB3+8JFZ	SCREW	[M]
48	XTBS26+10J	SCREW	[M]
49	XTBS3+8JFZ1	SCREW	[M]
50	XTS3+6FFZ	SCREW	[M]
51	RMN0730	TRAY GUIDE L	[M]
52	RMN0731	TRAY GUIDE R	[M]
53	RMR1440-X	PCB SUPPORT	[M]
		TRAVERSE DECK	

Ref. No.	Part No.	Part Name & Description	Remarks
301	RDG0567	PULSE GEAR	[M]
302	RDG0568	OPEN LOCK GEAR	[M]
303	RDG0569	CLOSE LOCK GEAR	[M]
304	RDV0073	TRAY BELT	[M]
306	REZ1484	11P FFC (TRAY-MAIN)	[M]
307	RGQ0358-K	TRAY BASE	[M]
308	RGQ0359-K	ROTARY TRAY	[M]
309	RHW81001-1	WASHER	[M]
310	RMB0365	TRAY SPRING	[M]
311	RME0384	CLOSE LOCK GEAR SPR.	[M]
312	RMF0182	TRAY FELT	[M]
313	RMF0324	BLOCK SHEET	[M]
315	RMM0256	BLOCK BASE	[M]
316	RMS0123-1	FIXED PIN B	[M]
319	XTWS3+10S	SCREW	[M]
320	BML3E4CRX	SPINDLE MOTOR	[M]
321	JSM0048	MAGNET	[M]
325	RDG0557	PINON SHAFT	[M]
326	RDG0558	BEVEL RING	[M]
327	RDG0562	PULLEY GEAR	[M]
328	RDG0563	RELAY GEAR A	[M]
329	RDG0564	RELAY GEAR B	[M]
330	RDG0565	DRIVE GEAR A	[M]
331	RDG0566	DRIVE GEAR B	[M]
332	RDG0570	CAM GEAR	[M]
333	RDV0072	LOADING BELT	[M]
334	RAF3023A-2S	OPU	[M]
335	REM0112	LOADING MOTOR ASS’Y	[M]
336	RHD14095	FPC SCREW	[M]
337	RHD17042	TILT ADJUST SCREW	[M]
338	RHD17046	RACK SCREW	[M]
339	RJB2621A	RELAY FPC	[M]
340	RMB0713-1	THRUST SPRING	[M]
341	RMB0714	TILT SPRING	[M]
342	RMC0387	SUPPORT SPRING	[M]
343	RMG0598-A	FLOATING RUBBER	[M]
344	RMG0615-K	CUSHION SHEET	[M]
345	RMG0617-H	CUSHION RUBBER A	[M]
346	RMG0618-H	CUSHION RUBBER B	[M]
347	RMG0620-K	CUSHION RUBBER	[M]
348	RMK0555	MECHA BASE	[M]
349	RML0646	CHANGE LEVER	[M]
350	RMM0252	OPU DRIVE RACK	[M]
351	RMM0254	SLIDE PLATE R	[M]
352	RMM0255	SLIDE PLATE L	[M]
353	RMQ1112	MOTOR COVER	[M]
354	RMR1446-X	CLAMPER	[M]
355	RMR1447-X	MAGNET HOLDER	[M]
356	RMR1466-K	TRAVERSE BASE	[M]
357	RMR1467-K	MIDDLE CHASSIS	[M]
358	RMR1507-X	SUPPORT PIECE	[M]
359	RMS0788	GUIDE SHAFT	[M]
360	RMS0789	FIXED PIN	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
361	RMS0798	GEAR SHAFT	[M]
362	RMS0802	DRIVE GEAR SHAFT	[M]
363	RMX0233	THRUST WASHER	[M]
364	RMX0241	TRAY SUPPORT R	[M]
365	RMX0242	TRAY SUPPORT L	[M]
366	RMX0247	WASHER	[M]
367	RXQ0946	TRV MOTOR SUB ASS'Y	[M]
368	VHD1224	ADJ SPRING HOLDER SC	[M]
369	XTN26+14JFZ	SUPPORT PIECE SCREW	[M]
370	XTN26+8G	SCREW	[M]
371	XTV2+6G	PCB SCREW	[M]
372	XWG6FFY	WASHER	[M]
373	XTB3+10J	SCREW	[M]

23.2. Component Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARD	
	REP3451A-N	DVD MODULE (1) P.C.B. (SIDE:A)	[M](RTL)
	REP3451A-N	DVD MODULE (1) P.C.B. (SIDE:B)	[M](RTL)
	REPX0386D	DVD MODULE (2) P.C.B. (SIDE:A)	[M](RTL)
	REPX0386D	DVD MODULE (2) P.C.B. (SIDE:B)	[M](RTL)
	REPX0334H	MAIN P.C.B.	[M](RTL)
	REPX0373B	TUNER P.C.B.	[M](RTL)
	REPX0334H	TUNER INTERFACE P.C.B.	[M](RTL)
	REPX0333C	PANEL P.C.B.	[M](RTL)
	REPX0334H	VIDEO OUT P.C.B.	[M](RTL)
	REPX0333C	HEADPHONE P.C.B.	[M](RTL)
	REPX0333C	SCART P.C.B.	[M](RTL)
	REP3465A	LOADING MOTOR P.C.B.	[M](RTL)
	REP3466A	TRAY MOTOR P.C.B.	[M](RTL)
	REP3466A	SENSOR P.C.B.	[M](RTL)
		INTEGRATED CIRCUITS	
IC2	C0CBADG00020	IC REGULATOR	[M]
IC3	C0DBAMH00009	IC POWER SUPPLY	[M]
IC4	C0DBAMH00009	IC POWER SUPPLY	[M]
IC5	C0DBZHE00011	1C POWER SUPPLY	[M]
IC6	C0CBADG00020	IC REGULATOR	[M]
IC7	C0CBADG00020	IC REGULATOR	[M]
IC8	C0DBEZG00011	IC REGULATOR	[M]
IC50	C9ZB00000377	IC 6 CHANNEL VIDEO DRIVER	[M]
IC51	C0GAG0000007	IC MOTOR DRIVER	[M]
IC52	C0GAG0000007	IC MOTOR DRIVER	[M]
IC53	C1AB00001466	IC VIDEO BUFFER	[M]
IC101	LA1833NMNTLM	IC IF & MPX	[M]
IC102	LC72131MDTRM	IC PLL	[M]
IC301	C0JZAS000004	IC ANALOG SWITCH	[M]
IC302	KIA4558FEL	IC DUAL OP-AMP	[M]
IC303	KIA4558FEL	IC DUAL OP-AMP	[M]
IC304	C0JBAR000326	IC 4 CHANNEL SWITCH	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
IC305	M5228FPE1	IC QUAD OP AMP	[M]
IC306	KIA4558FEL	IC DUAL OP-AMP	[M]
IC307	C1BB00000782	IC 6 CHANNEL VOLUME	[M]
IC308	C0AABB000055	IC AMP	[M]
IC309	M5228FPE1	IC QUAD OP AMP	[M]
IC700	C2HBZC000013	IC DIGITAL SOUND PROCESSOR	[M]
IC701	M62456FPE1	IC BLT	[M]
IC800	C2CBHF000294	IC MICROPROCESSOR	[M]
IC802	C1BB00000715	IC RDS	[M]
IC900	C0HBB0000035	IC FL DRIVER	[M]
IC950	C0JBAR000292	IC ANALOG SW	[M]
IC951	BA7660FS-E2	IC VIDEO AMP	[M]
IC952	C1AB00001466	IC V. BUFFER	[M]
IC2501	C0GBF0000004	IC MOTOR DRIVE	[M]
IC2521	C0GBG0000033	IC MOTOR DRIVE	[M]
IC3001	MN2DS0002AP1	IC AV DECODER	[M]
IC3051	C3ABPG000068	IC 64 SDRAM	[M]
IC3061	C3ABPG000068	IC 64 SDRAM	[M]
IC4211	C0FBBK000036	IC AUDIO DAC	[M]
IC6201	C0EBE0000070	IC RESET	[M]
IC6251	C0CBCBE00003	IC POWER SUPPLY	[M]
IC6261	C0JBAA000001	IC INVERTER	[M]
IC6262	C0JBAA000001	IC INVERTER	[M]
IC6301	RFKFMH70T320	IC 16M FROM	[SPC]
IC6311	C0JBAZ001251	IC LATCH	[M]
IC6312	C0JBAZ001251	IC LATCH	[M]
IC6561	C1DB00000980	IC CLOCK GENERATOR	[M]
		TRANSISTORS	
Q1	KRA110STA	TRANSISTOR	[M]
Q3	KTA1046	TRANSISTOR	[M]
Q4	KTC3875GRTA	TRANSISTOR	[M]
Q5	B1ADCF000001	TRANSISTOR	[M]
Q6	KRA102STA	TRANSISTOR	[M]
Q15	KRC107STA	TRANSISTOR	[M]
Q16	KRC107STA	TRANSISTOR	[M]
Q17	KRC107STA	TRANSISTOR	[M]
Q18	KRC107STA	TRANSISTOR	[M]
Q19	KRC107STA	TRANSISTOR	[M]
Q51	KTC3205YTA	TRANSISTOR	[M]
Q52	KRC107STA	TRANSISTOR	[M]
Q53	KRC102STA	TRANSISTOR	[M]
Q54	KRC102STA	TRANSISTOR	[M]
Q55	KRC102STA	TRANSISTOR	[M]
Q101	2SC2058SPTA	TRANSISTOR	[M]
Q102	2SC2058SPTA	TRANSISTOR	[M]
Q106	KRA102MTA	TRANSISTOR	[M]
Q110	2SC3311ARA	TRANSISTOR	[M]
Q300	B1GFGCAA0001	TRANSISTOR	[M]
Q301	KRA110STA	TRANSISTOR	[M]
Q302	KRA110STA	TRANSISTOR	[M]
Q304	KRA110STA	TRANSISTOR	[M]
Q305	KRA110STA	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q307	B1GFGCAA0001	TRANSISTOR	[M]
Q308	B1GFGCAA0001	TRANSISTOR	[M]
Q310	B1GFGCAA0001	TRANSISTOR	[M]
Q312	B1GFGCAA0001	TRANSISTOR	[M]
Q314	KRA110STA	TRANSISTOR	[M]
Q315	KRA110STA	TRANSISTOR	[M]
Q317	KRA110STA	TRANSISTOR	[M]
Q320	KTD1304TA	TRANSISTOR	[M]
Q321	KTC3875GRTA	TRANSISTOR	[M]
Q750	KTA12710YTA	TRANSISTOR	[M]
Q751	B1ADCF000001	TRANSISTOR	[M]
Q752	B1BCCD000016	TRANSISTOR	[M]
Q753	KTC3875GRTA	TRANSISTOR	[M]
Q754	KTA1046	TRANSISTOR	[M]
Q755	2SD21370PA	TRANSISTOR	[M]
Q756	KRA110STA	TRANSISTOR	[M]
Q757	B1AAKD000009	TRANSISTOR	[M]
Q758	KTC3205YTA	TRANSISTOR	[M]
Q800	KRC103STA	TRANSISTOR	[M]
Q801	KRC111STA	TRANSISTOR	[M]
Q802	KRC103STA	TRANSISTOR	[M]
Q900	KRC107STA	TRANSISTOR	[M]
Q901	KRC107STA	TRANSISTOR	[M]
Q902	KRC107STA	TRANSISTOR	[M]
Q903	KRC107STA	TRANSISTOR	[M]
Q904	KRC107STA	TRANSISTOR	[M]
Q905	KRA102STA	TRANSISTOR	[M]
Q906	KRA102STA	TRANSISTOR	[M]
Q907	KRA102STA	TRANSISTOR	[M]
Q908	KRA102STA	TRANSISTOR	[M]
Q909	KRA102STA	TRANSISTOR	[M]
Q910	KRC107STA	TRANSISTOR	[M]
Q952	2SB0709AHL	TRANSISTOR	[M]
Q953	KRA102STA	TRANSISTOR	[M]
Q955	KRA102STA	TRANSISTOR	[M]
Q956	KRC107STA	TRANSISTOR	[M]
Q5111	B1ADPC000004	TRANSISTOR	[M]
Q5115	B1ADPC000004	TRANSISTOR	[M]
Q5211	UNR212100L	TRANSISTOR	[M]
Q5221	2SD1819A0L	TRANSISTOR	[M]
Q5225	2SD1819A0L	TRANSISTOR	[M]
Q9001	B3NAA0000068	PHOTO INTERRUPTER	[M]
Q9101	B3NAA0000078	PHOTO INTERRUPTER	[M]
Q9102	B3NAA0000011	PHOTO INTERRUPTER	[M]
Q9103	B3NAB0000027	PHOTO INTERRUPTER	[M]
		DIODES	
D2	B0BC9R000008	DIODE	[M]
D3	B0ACCK000005	DIODE	[M]
D6	B0JCPC000004	DIODE	[M]
D7	B0JCPC000004	DIODE	[M]
D8	B0BC7R500001	DIODE	[M]
D9	B0BC7R500001	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D10	B0ECKM000016	DIODE	[M]
D20	B0ACCK000005	DIODE	[M]
D21	B0ACCK000005	DIODE	[M]
D51	B0ECKM000016	DIODE	[M]
D52	B0ECKM000016	DIODE	[M]
D53	B0ECKM000016	DIODE	[M]
D54	B0ECKM000016	DIODE	[M]
D55	B0ECKM000016	DIODE	[M]
D56	B0ECKM000016	DIODE	[M]
D101	B0BC5R000009	DIODE	[M]
D201	B0ACCK000005	DIODE	[M]
D301	B0BC5R000009	DIODE	[M]
D302	B0BC5R000009	DIODE	[M]
D401	B0ACCK000005	DIODE	[M]
D700	B0ACCK000005	DIODE	[M]
D701	B0ACCK000005	DIODE	[M]
D750	B0FBAM000010	DIODE	[M]
D751	B0ECKM000016	DIODE	[M]
D752	B0ECKM000016	DIODE	[M]
D753	UDZSTE1712B	DIODE	[M]
D756	RL1N4003N02	DIODE	[M]
D757	RL1N4003N02	DIODE	[M]
D758	RL1N4003N02	DIODE	[M]
D759	RL1N4003N02	DIODE	[M]
D760	RL1N4003N02	DIODE	[M]
D761	RL1N4003N02	DIODE	[M]
D762	UDZSTE1730B	DIODE	[M]
D763	UDZSTE1710B	DIODE	[M]
D764	B0BC7R500001	DIODE	[M]
D765	B0BC5R600003	DIODE	[M]
D767	B0ECKM000016	DIODE	[M]
D769	B0ECKM000016	DIODE	[M]
D770	B0ACCK000005	DIODE	[M]
D771	UDZSTE1715B	DIODE	[M]
D801	1SS380TE-17	DIODE	[M]
D802	1SS380TE-17	DIODE	[M]
D803	1SS380TE-17	DIODE	[M]
D804	B0ACCK000005	DIODE	[M]
D805	B0ACCK000005	DIODE	[M]
D806	B0ADCJ000020	DIODE	[M]
D807	B0ACCK000005	DIODE	[M]
D900	SLI325URCT31	DIODE	[M]
D901	SPR325MVWT31	DIODE	[M]
D902	SPR325MVWT31	DIODE	[M]
D903	SPR325MVWT31	DIODE	[M]
D904	SPR325MVWT31	DIODE	[M]
D905	SPR325MVWT31	DIODE	[M]
D906	B0BC5R000009	DIODE	[M]
D908	B0ACCK000005	DIODE	[M]
D909	LNJ301MPUJAD	DIODE	[M]
D911	B0ACCK000005	DIODE	[M]
D912	B0ACCK000005	DIODE	[M]
D913	B0ACCK000005	DIODE	[M]
D914	B0ACCK000005	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D915	B0ACCK000005	DIODE	[M]
D916	B0ACCK000005	DIODE	[M]
D5131	MA2J72800L	DIODE	[M]
		CHIP BEADS & INDUCTORS	
LB2501	J0JHC0000045	CHIP BEADS	[M]
LB2502	J0JHC0000045	CHIP BEADS	[M]
LB2503	J0JHC0000045	CHIP BEADS	[M]
LB3001	J0JHC0000045	CHIP BEADS	[M]
LB3002	J0JHC0000045	CHIP BEADS	[M]
LB3201	D0GB101JA002	100 1/16W	[M]
LB3202	D0GB101JA002	100 1/16W	[M]
LB3203	D0GB101JA002	100 1/16W	[M]
LB3204	J0JCC0000119	CHIP INDUCTOR	[M]
LB3205	J0JCC0000119	CHIP INDUCTOR	[M]
LB3206	J0JCC0000119	CHIP INDUCTOR	[M]
LB3207	J0JCC0000119	CHIP INDUCTOR	[M]
LB3208	J0JCC0000119	CHIP INDUCTOR	[M]
LB4200	J0JBC0000015	CHIP INDUCTOR	[M]
LB4201	J0JCC0000119	CHIP INDUCTOR	[M]
LB4207	J0JCC0000119	CHIP INDUCTOR	[M]
LB4208	J0JCC0000119	CHIP INDUCTOR	[M]
LB4209	J0JCC0000119	CHIP INDUCTOR	[M]
LB4210	J0JCC0000119	CHIP INDUCTOR	[M]
LB4211	J0JCC0000119	CHIP INDUCTOR	[M]
LB4212	J0JCC0000119	CHIP INDUCTOR	[M]
LB4214	J0JCC0000119	CHIP INDUCTOR	[M]
LB4215	J0JCC0000119	CHIP INDUCTOR	[M]
LB4216	J0JBC0000015	CHIP INDUCTOR	[M]
LB4217	J0JBC0000015	CHIP INDUCTOR	[M]
LB4218	ERJ3GEY0R00V	0 1/16W	[M]
LB5101	J0JHC0000045	CHIP BEADS	[M]
LB5102	J0JBC0000015	CHIP INDUCTOR	[M]
LB5103	J0JBC0000015	CHIP INDUCTOR	[M]
LB5201	J0JBC0000015	CHIP INDUCTOR	[M]
LB5204	J0JCC0000119	CHIP INDUCTOR	[M]
LB5205	J0JCC0000119	CHIP INDUCTOR	[M]
LB5206	J0JBC0000015	CHIP INDUCTOR	[M]
LB5207	J0JCC0000119	CHIP INDUCTOR	[M]
LB5208	J0JBC0000015	CHIP INDUCTOR	[M]
LB5210	J0JCC0000119	CHIP INDUCTOR	[M]
LB5211	J0JCC0000119	CHIP INDUCTOR	[M]
LB5212	J0JCC0000119	CHIP INDUCTOR	[M]
LB5213	J0JCC0000119	CHIP INDUCTOR	[M]
LB5214	J0JHC0000045	CHIP BEADS	[M]
LB5215	J0JCC0000119	CHIP INDUCTOR	[M]
LB5217	J0JCC0000119	CHIP INDUCTOR	[M]
LB5219	J0JCC0000119	CHIP INDUCTOR	[M]
LB5220	J0JBC0000015	CHIP INDUCTOR	[M]
LB5222	ERJ3GEY0R00V	0 1/16W	[M]
LB5228	J0JBC0000015	CHIP INDUCTOR	[M]
LB5229	J0JBC0000015	CHIP INDUCTOR	[M]
LB5231	J0JHC0000045	CHIP BEADS	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
LB5233	J0JHC0000045	CHIP BEADS	[M]
LB5235	J0JBC0000015	CHIP INDUCTOR	[M]
LB6261	J0JBC0000015	CHIP INDUCTOR	[M]
LB6301	J0JHC0000045	CHIP BEADS	[M]
LB6561	J0JBC0000015	CHIP INDUCTOR	[M]
LB6562	J0JCC0000167	CHIP INDUCTOR	[M]
LB6564	J0JCC0000077	CHIP BEEZ	[M]
LB6566	J0JBC0000015	CHIP INDUCTOR	[M]
LB6567	J0JCC0000119	CHIP INDUCTOR	[M]
		VARIABLE RESISTORS	
VR900	EVEKE2F3024M	VR VOLUME JOG	[M]
		SWITCHES	
S900	EVQ21405R	SW DISC EXCHANGE	[M]
S901	EVQ21405R	SW DISC SKIP	[M]
S902	EVQ21405R	SW DISC OPEN/CLOSE	[M]
S903	EVQ21405R	SW PLAY	[M]
S904	EVQ21405R	SW PAUSE	[M]
S905	EVQ21405R	SW STOP	[M]
S906	EVQ11G07K	SW SEL	[M]
S907	EVQ11G07K	SW TUNE DOWN	[M]
S908	EVQ11G07K	SW TUNE UP	[M]
S909	EVQ11G07K	SW PROGRESSIVE	[M]
S910	EVQ11G07K	SW CSM	[M]
S912	EVQ11G07K	SW POWER	[M]
S9001	K0L1BA000086	SW LOADING	[M]
		CONNECTORS	
CN301	RJS1A9411	11P FFC CONNECTOR	[M]
CN302	RJS2A5622	22P FFC CONNECTOR	[M]
CN303	K1KA11A00093	11P CONNECTOR	[M]
CN304	RJT119W05V	5P CONNECTOR	[M]
CN305	K1KA22A00046	22P CONNECTOR	[M]
CN306	K1KA26A00091	26P CONNECTORS	[M]
CN307	K1MN19A00021	19P FFC CONNECTOR	[M]
CN308	RJS2A5611	11P FFC CONNETOR	[M]
CN309	RJS2A5611	11P FFC CONNETOR	[M]
CN900	RJS2A7722	20P FFC CONNECTOR	[M]
CN901	RJS1A6211-1	11P FFC CONNECTOR	[M]
CN950	RJS2A7719	19P FFC CONNECTOR	[M]
CN951	K1FB121A0007	SCART TERMINAL	[M]
CN9003	K1MN11B00065	CONNECTOR	[M]
CN9102	K1MN11B00065	CONNECTOR	[M]
CP100	RJU100W11	11P CONNECTOR	[M]
CP702	K1KB11A00020	CONNECTOR	[M]
CP703	K1KA11A00093	11P CONNECTOR	[M]
FP2501	K1MN15A00037	15P CONNECTOR	[M]
FP5101	K1MN30A00048	30P CONNECTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
FP5102	K1MN50B00021	CONNECTOR	[M]
FP5201	K1MN50A00005	CONNECTOR	[M]
PS3201	K1KB22A00025	22P CONNECTOR	[M]
PS4201	K1KB26A00027	26P CONNECTOR	[M]
		COILS & TRANSFORMERS	
L4	G0A100G00005	INDUCTOR	[M]
L6	G0A101G00022	COIL	[M]
L7	G0A100G00005	INDUCTOR	[M]
L8	G0A100G00005	INDUCTOR	[M]
L9	G0A101G00022	COIL	[M]
L10	J0JBC0000019	CHIP INDUCTOR	[M]
L11	J0JBC0000019	CHIP INDUCTOR	[M]
L50	ELESN220JA	COIL	[M]
L51	ELJFCR39KF	CHIP INDUCTOR	[M]
L52	J0JBC0000015	CHIP INDUCTOR	[M]
L53	J0JBC0000015	CHIP INDUCTOR	[M]
L54	J0JBC0000015	CHIP INDUCTOR	[M]
L55	J0JBC0000015	CHIP INDUCTOR	[M]
L56	J0JBC0000015	CHIP INDUCTOR	[M]
L57	J0JBC0000015	CHIP INDUCTOR	[M]
L58	J0JBC0000015	CHIP INDUCTOR	[M]
L59	J0JBC0000015	CHIP INDUCTOR	[M]
L60	J0JBC0000015	CHIP INDUCTOR	[M]
L61	J0JBC0000015	CHIP INDUCTOR	[M]
L62	J0JBC0000015	CHIP INDUCTOR	[M]
L63	J0JBC0000015	CHIP INDUCTOR	[M]
L64	J0JBC0000015	CHIP INDUCTOR	[M]
L750	G0A100G00005	INDUCTOR	[M] ⚠
L751	G0A100G00005	INDUCTOR	[M] ⚠
L800	RLQB3R3KT-1Y	COIL	[M]
L801	G0C101JA0030	INDUCTOR	[M]
L802	G0C101JA0030	INDUCTOR	[M]
L900	J0JBC0000019	CHIP INDUCTOR	[M]
L901	J0JBC0000019	CHIP INDUCTOR	[M]
L902	J0JBC0000019	CHIP INDUCTOR	[M]
L903	J0JBC0000041	CHIP INDUCTOR	[M]
L950	VLP0145-T	CHIP INDUCTOR	[M]
L951	VLP0145-T	CHIP INDUCTOR	[M]
L952	VLP0145-T	CHIP INDUCTOR	[M]
L953	VLP0145-T	CHIP INDUCTOR	[M]
L2001	G1C100K00020	CHIP INDUCTOR	[M]
L2002	G1C100K00020	CHIP INDUCTOR	[M]
L3101	G1C100K00020	CHIP INDUCTOR	[M]
L4211	G1C220KA0038	CHIP CAPACITOR	[M]
L5110	G1C100K00020	CHIP INDUCTOR	[M]
L5221	G1C100K00020	CHIP INDUCTOR	[M]
L6561	G1C220KA0038	CHIP CAPACITOR	[M]
L6562	G1C220KA0038	CHIP CAPACITOR	[M]
		COMPONENT COMBINATION	

Ref. No.	Part No.	Part Name & Description	Remarks
Z101	RLA2Z007-T	COIL	[M]
Z102	G2BAE0000003	AM IF BLOCK	[M]
Z120	ENV17290G1Y	FM TUNER PACK	[M]
Z900	RCDGP1UM272R	INFRAREDRAY	[M]
		CERAMIC FILTERS	
CF201	RLFFETNGD01L	CERAMIC FILTER	[M]
CF202	RLFFETMGD01L	CERAMIC FILTER	[M]
		OSCILLATORS	
X102	RLFDFT22DD	DISCRIMINATOR	[M]
X103	RSXC7M20S05T	CRYSTAL OSCILLATOR	[M]
X700	RSXZ36M8M01T	RESONATOR	[M]
X800	H2B100500004	CERAMIC RESONATORS	[M]
X801	RSXC4M33S02T	CRYSTAL OSCILLATOR	[M]
X6501	H0J368600003	CRYSTAL OSCILLATOR	[M]
		DISPLAY TUBE	
FL900	A2BD00000065	FL DISPLAY	[M]
FL4201	F1H0J1050018	1 6.3V	[M]
FL6251	F1J1E1040022	0.1 25V	[M]
FL6252	F1H0J1050018	1 6.3V	[M]
FL6253	F1H0J1050018	1 6.3V	[M]
FL6254	F1H0J1050018	1 6.3V	[M]
		FUSE PROTECTOR	
FP750	K5G202AA0002	FUSE PROTECTOR	[M]
		JACKS	
JK101	RJH8304N	JK ANTENNA	[M]
JK300	K1FB125B0097	JK SYSTEM CONNECTOR	[M]
JK301	K1U208B00002	JK VIDEO	[M]
JK302	K2HA306B0069	JK 3 PIN	[M]
JK303	RJH2405L	JK 4 PIN RCA	[M]
JK304	RJH2405L	JK 4 PIN RCA	[M]
JK901	K2HC103A0023	JK SMALL SIGN	[M]
		EARTH TERMINAL	
E301	K4CZ01000027	TERMINALS	[M]
E750	K4CZ01000027	TERMINALS	[M]
		WIRES	
FC9101	RWJ4906082SS	WIRE	[M]
W304	REXX0329	5P WIRE (MAIN-PRO)	[M]
		RESISTORS	

Ref. No.	Part No.	Part Name & Description	Remarks
R1	D0GB1R0JA002	1 1/16W	[M]
R1	ERJ3GEY0R00V	0 1/16W	[M]
R2	D0GB1R0JA002	1 1/16W	[M]
R2	ERJ3GEY0R00V	0 1/16W	[M]
R3	D0GB1R0JA002	1 1/16W	[M]
R3	ERJ3GEY0R00V	0 1/16W	[M]
R4	D0GB1R0JA002	1 1/16W	[M]
R4	ERJ3GEY0R00V	0 1/16W	[M]
R5	ERJ3GEY0R00V	0 1/16W	[M]
R5	ERJ3GEYJ103V	10K 1/16W	[M]
R6	D0GB1R0JA002	1 1/16W	[M]
R7	D0GB1R0JA002	1 1/16W	[M]
R8	D0GB1R0JA002	1 1/16W	[M]
R9	D0GB1R0JA002	1 1/16W	[M]
R10	D0GB1R0JA002	1 1/16W	[M]
R11	D0GB1R0JA002	1 1/16W	[M]
R12	ERJ3GEYJ822V	8.2K 1/16W	[M]
R14	ERJ3GEYJ102V	1K 1/16W	[M]
R15	ERJ3GEYJ102V	1K 1/16W	[M]
R16	ERJ3GEYJ102V	1K 1/16W	[M]
R17	D0GB392JA002	3.9K 1/16W	[M]
R18	ERJ3GEYJ472V	4.7K 1/16W	[M]
R19	ERJ3GEYJ472V	4.7K 1/16W	[M]
R20	ERJ3GEYJ331V	330 1/16W	[M]
R21	D0GB1R0JA002	1 1/16W	[M]
R22	D0GB1R0JA002	1 1/16W	[M]
R23	D0GB122JA019	1.2K 1/16W	[M]
R24	ERJ3GEYJ102V	1K 1/16W	[M]
R25	D0GB100JA002	10 1/16W	[M]
R26	D0GB271JA002	270 1/16W	[M]
R35	ERJ3GEYJ103V	10K 1/16W	[M]
R36	ERJ3GEYJ103V	10K 1/16W	[M]
R51	D0GB183JA002	18K 1/16W	[M]
R52	ERJ3GEYJ223V	22K 1/16W	[M]
R56	D0HB750ZA003	75 3W	[M]
R57	D0HB750ZA003	75 3W	[M]
R58	D0HB750ZA003	75 3W	[M]
R59	D0HB750ZA003	75 3W	[M]
R60	D0HB750ZA003	75 3W	[M]
R61	ERJ3GEYD750V	75 1/16W	[M]
R62	D0GB1R0JA002	1 1/16W	[M]
R63	D0GB1R0JA002	1 1/16W	[M]
R64	ERJ3GEYJ472V	4.7K 1/16W	[M]
R65	ERJ3GEYJ103V	10K 1/16W	[M]
R66	D0GB121JA002	120 1/16W	[M]
R67	D0GB151JA002	150 1/16W	[M]
R68	ERJ3GEYJ472V	4.7K 1/16W	[M]
R69	ERJ3GEYJ103V	10K 1/16W	[M]
R70	ERJ3GEYJ331V	330 1/16W	[M]
R71	ERJ3GEYJ331V	330 1/16W	[M]
R72	ERJ3GEYJ331V	330 1/16W	[M]
R73	D0GB1R0JA002	1 1/16W	[M]
R74	D0GB1R0JA002	1 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R75	ERJ3GEYJ331V	330 1/16W	[M]
R76	D0GB1R0JA002	1 1/16W	[M]
R77	D0GB1R0JA002	1 1/16W	[M]
R78	D0GB1R0JA002	1 1/16W	[M]
R79	D0GB1R0JA002	1 1/16W	[M]
R80	D0GB750JA019	75 1/16W	[M]
R81	D0GB101JA002	100 1/16W	[M]
R82	D0GB750JA019	75 1/16W	[M]
R83	D0GB750JA019	75 1/16W	[M]
R85	ERJ3GEYJ222V	2.2K 1/16W	[M]
R102	ERJ3GEYJ472V	4.7K 1/16W	[M]
R103	D0GB101JA002	100 1/16W	[M]
R104	ERJ3GEYJ103V	10K 1/16W	[M]
R105	ERJ3GEYJ471V	470 1/16W	[M]
R106	D0GB474JA002	470K 1/16W	[M]
R107	ERJ3GEYJ331V	330 1/16W	[M]
R108	D0GB474JA002	470K 1/16W	[M]
R109	ERJ3GEYJ331V	330 1/16W	[M]
R110	ERJ3GEYJ102V	1K 1/16W	[M]
R111	ERJ3GEYJ391V	390 1/16W	[M]
R112	ERJ3GEYJ104V	100K 1/16W	[M]
R113	ERJ3GEYJ103V	10K 1/16W	[M]
R114	D0GB562JA002	5.6K 1/16W	[M]
R115	ERJ3GEYJ561V	560 1/16W	[M]
R116	ERJ3GEYJ102V	1K 1/16W	[M]
R117	D0GB683JA002	68K 1/16W	[M]
R118	D0GB332JA002	3.3K 1/16W	[M]
R119	ERJ3GEYJ123V	12K 1/16W	[M]
R120	ERJ3GEYJ473V	47K 1/16W	[M]
R121	ERJ3GEYJ223V	22K 1/16W	[M]
R122	D0GB272JA002	2.7K 1/16W	[M]
R123	D0GB683JA002	68K 1/16W	[M]
R124	ERJ3GEYJ330V	33 1/16W	[M]
R125	ERJ3GEYJ471V	470 1/16W	[M]
R126	ERJ3GEYJ102V	1K 1/16W	[M]
R127	ERJ3GEYJ471V	470 1/16W	[M]
R128	D0GB820JA019	82 1/16W	[M]
R129	D0GB273JA002	27K 1/16W	[M]
R130	ERJ3GEYJ103V	10K 1/16W	[M]
R131	D0GB121JA002	120 1/16W	[M]
R132	ERJ3GEYJ103V	10K 1/16W	[M]
R133	ERJ3GEYJ102V	1K 1/16W	[M]
R134	ERJ3GEYJ471V	470 1/16W	[M]
R135	ERJ3GEYJ102V	1K 1/16W	[M]
R136	ERJ3GEYJ102V	1K 1/16W	[M]
R137	ERJ3GEYJ102V	1K 1/16W	[M]
R138	D0GB332JA002	3.3K 1/16W	[M]
R139	ERJ3GEYJ223V	22K 1/16W	[M]
R140	ERJ3GEYJ223V	22K 1/16W	[M]
R141	ERJ3GEYJ682V	6.8K 1/16W	[M]
R142	ERJ3GEYJ682V	6.8K 1/16W	[M]
R143	ERJ3GEYJ223V	22K 1/16W	[M]
R144	D0GB121JA002	120 1/16W	[M]
R145	ERJ3GEYJ104V	100K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R146	ERJ3GEYJ104V	100K 1/16W	[M]
R151	D0GB820JA019	82 1/16W	[M]
R152	ERJ3GEY0R00V	0 1/16W	[M]
R201	ERJ3GEYJ473V	47K 1/16W	[M]
R202	ERJ3GEYJ222V	2.2K 1/16W	[M]
R203	ERJ3GEYJ103V	10K 1/16W	[M]
R204	D0GB392JA002	3.9K 1/16W	[M]
R205	ERJ3GEYJ103V	10K 1/16W	[M]
R206	D0GB392JA002	3.9K 1/16W	[M]
R207	ERJ3GEYJ103V	10K 1/16W	[M]
R208	D0GB392JA002	3.9K 1/16W	[M]
R209	ERJ3GEY0R00V	0 1/16W	[M]
R210	ERJ3GEYJ104V	100K 1/16W	[M]
R211	ERJ3GEYJ472V	4.7K 1/16W	[M]
R212	D0GB272JA002	2.7K 1/16W	[M]
R213	ERJ3GEYJ102V	1K 1/16W	[M]
R214	ERJ3GEYJ103V	10K 1/16W	[M]
R215	ERJ3GEYJ104V	100K 1/16W	[M]
R216	ERJ3GEYJ473V	47K 1/16W	[M]
R219	ERJ3GEYJ103V	10K 1/16W	[M]
R220	ERJ3GEYJ682V	6.8K 1/16W	[M]
R221	ERJ3GEYJ103V	10K 1/16W	[M]
R222	ERJ3GEYJ103V	10K 1/16W	[M]
R223	ERJ3GEYJ103V	10K 1/16W	[M]
R224	ERJ3GEYJ103V	10K 1/16W	[M]
R225	D0GB333JA002	33K 1/16W	[M]
R226	ERJ3GEYJ103V	10K 1/16W	[M]
R227	ERJ3GEYJ102V	1K 1/16W	[M]
R228	D0GB333JA002	33K 1/16W	[M]
R229	D0GB332JA002	3.3K 1/16W	[M]
R230	D0GB273JA002	27K 1/16W	[M]
R231	D0GB302JA008	3K 1/16W	[M]
R232	ERJ3GEYJ102V	1K 1/16W	[M]
R233	D0GB271JA002	270 1/16W	[M]
R234	D0GB392JA002	3.9K 1/16W	[M]
R235	ERJ3GEYJ223V	22K 1/16W	[M]
R236	D0GB392JA002	3.9K 1/16W	[M]
R237	ERJ3GEYJ223V	22K 1/16W	[M]
R238	ERJ3GEYJ102V	1K 1/16W	[M]
R239	ERJ3GEYJ102V	1K 1/16W	[M]
R240	D0GB152JA002	1.5K 1/16W	[M]
R241	D0GB272JA002	2.7K 1/16W	[M]
R242	D0GB563JA002	56K 1/16W	[M]
R243	D0GB563JA002	56K 1/16W	[M]
R244	ERJ3GEYJ104V	100K 1/16W	[M]
R245	ERJ3GEYJ682V	6.8K 1/16W	[M]
R246	D0GB273JA002	27K 1/16W	[M]
R247	ERJ3GEYJ103V	10K 1/16W	[M]
R248	D0GB333JA002	33K 1/16W	[M]
R249	D0GB220JA002	22 1/16W	[M]
R250	D0GB220JA002	22 1/16W	[M]
R251	D0GB220JA002	22 1/16W	[M]
R252	D0GB220JA002	22 1/16W	[M]
R253	ERJ3GEYJ472V	4.7K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R254	D0GB100JA002	10 1/16W	[M]
R255	D0GB332JA002	3.3K 1/16W	[M]
R256	ERJ3GEYJ223V	22K 1/16W	[M]
R257	D0GB273JA002	27K 1/16W	[M]
R258	ERJ3GEYJ102V	1K 1/16W	[M]
R259	D0GB683JA002	68K 1/16W	[M]
R260	ERJ3GEYJ682V	6.8K 1/16W	[M]
R261	D0GB333JA002	33K 1/16W	[M]
R262	ERJ3GEYJ561V	560 1/16W	[M]
R263	ERJ3GEYJ472V	4.7K 1/16W	[M]
R264	ERJ3GEYJ222V	2.2K 1/16W	[M]
R265	ERJ3GEYJ222V	2.2K 1/16W	[M]
R266	ERJ3GEYJ104V	100K 1/16W	[M]
R267	D0GB272JA002	2.7K 1/16W	[M]
R268	D0GB332JA002	3.3K 1/16W	[M]
R269	ERJ3GEYJ222V	2.2K 1/16W	[M]
R301	D0GB273JA002	27K 1/16W	[M]
R302	D0GB272JA002	2.7K 1/16W	[M]
R303	D0GB272JA002	2.7K 1/16W	[M]
R304	D0GB563JA002	56K 1/16W	[M]
R305	ERJ3GEYJ682V	6.8K 1/16W	[M]
R306	D0GB101JA002	100 1/16W	[M]
R307	D0GB333JA002	33K 1/16W	[M]
R308	D0GB332JA002	3.3K 1/16W	[M]
R310	D0GB333JA002	33K 1/16W	[M]
R311	ERJ3GEYJ223V	22K 1/16W	[M]
R312	D0GB273JA002	27K 1/16W	[M]
R313	D0GB302JA008	3K 1/16W	[M]
R314	ERJ3GEYJ102V	1K 1/16W	[M]
R315	ERJ3GEYJ102V	1K 1/16W	[M]
R316	ERJ3GEYJ102V	1K 1/16W	[M]
R318	ERJ3GEYJ102V	1K 1/16W	[M]
R319	D0GB271JA002	270 1/16W	[M]
R320	D0GB271JA002	270 1/16W	[M]
R321	D0GB332JA002	3.3K 1/16W	[M]
R322	ERJ3GEYJ472V	4.7K 1/16W	[M]
R323	ERJ3GEYJ822V	8.2K 1/16W	[M]
R324	ERJ3GEYJ822V	8.2K 1/16W	[M]
R325	ERJ3GEYJ104V	100K 1/16W	[M]
R326	D0GB563JA002	56K 1/16W	[M]
R327	ERJ3GEYJ682V	6.8K 1/16W	[M]
R328	D0GB563JA002	56K 1/16W	[M]
R329	ERJ3GEYJ104V	100K 1/16W	[M]
R330	ERJ3GEYJ103V	10K 1/16W	[M]
R331	ERJ3GEYJ682V	6.8K 1/16W	[M]
R332	ERJ3GEYJ104V	100K 1/16W	[M]
R333	ERJ3GEYJ822V	8.2K 1/16W	[M]
R334	D0GB683JA002	68K 1/16W	[M]
R335	ERJ3GEYJ473V	47K 1/16W	[M]
R337	ERJ3GEYJ102V	1K 1/16W	[M]
R338	ERJ3GEYJ182V	1.8K 1/16W	[M]
R339	ERJ3GEYJ182V	1.8K 1/16W	[M]
R340	ERJ3GEYJ182V	1.8K 1/16W	[M]
R343	ERJ3GEYJ473V	47K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R344	ERJ3GEYJ473V	47K 1/16W	[M]
R345	ERJ3GEYJ473V	47K 1/16W	[M]
R346	ERJ3GEYJ391V	390 1/16W	[M]
R347	ERJ3GEYJ472V	4.7K 1/16W	[M]
R348	ERJ3GEYJ222V	2.2K 1/16W	[M]
R349	ERJ3GEYJ222V	2.2K 1/16W	[M]
R350	D0GB332JA002	3.3K 1/16W	[M]
R351	D0GB273JA002	27K 1/16W	[M]
R352	D0GB563JA002	56K 1/16W	[M]
R353	ERJ3GEYJ391V	390 1/16W	[M]
R354	ERJ3GEYJ182V	1.8K 1/16W	[M]
R355	D0GB563JA002	56K 1/16W	[M]
R357	D0GB273JA002	27K 1/16W	[M]
R358	D0GB563JA002	56K 1/16W	[M]
R359	D0GB273JA002	27K 1/16W	[M]
R360	D0GB563JA002	56K 1/16W	[M]
R361	D0GB273JA002	27K 1/16W	[M]
R362	D0GB563JA002	56K 1/16W	[M]
R363	D0GB273JA002	27K 1/16W	[M]
R363	ERJ3GEYJ102V	1K 1/16W	[M]
R364	ERJ3GEYJ103V	10K 1/16W	[M]
R365	ERJ3GEYJ182V	1.8K 1/16W	[M]
R366	D0GB563JA002	56K 1/16W	[M]
R367	D0GB273JA002	27K 1/16W	[M]
R368	D0GB332JA002	3.3K 1/16W	[M]
R369	D0GB563JA002	56K 1/16W	[M]
R370	ERJ3GEYJ102V	1K 1/16W	[M]
R401	ERJ3GEYJ473V	47K 1/16W	[M]
R402	ERJ3GEYJ222V	2.2K 1/16W	[M]
R403	ERJ3GEYJ103V	10K 1/16W	[M]
R404	D0GB392JA002	3.9K 1/16W	[M]
R405	ERJ3GEYJ103V	10K 1/16W	[M]
R406	D0GB392JA002	3.9K 1/16W	[M]
R407	ERJ3GEYJ103V	10K 1/16W	[M]
R408	D0GB392JA002	3.9K 1/16W	[M]
R409	ERJ3GEY0R00V	0 1/16W	[M]
R410	ERJ3GEYJ104V	100K 1/16W	[M]
R411	ERJ3GEYJ472V	4.7K 1/16W	[M]
R412	D0GB272JA002	2.7K 1/16W	[M]
R413	ERJ3GEYJ102V	1K 1/16W	[M]
R414	ERJ3GEYJ103V	10K 1/16W	[M]
R415	ERJ3GEYJ104V	100K 1/16W	[M]
R416	ERJ3GEYJ473V	47K 1/16W	[M]
R419	ERJ3GEYJ103V	10K 1/16W	[M]
R420	ERJ3GEYJ682V	6.8K 1/16W	[M]
R421	ERJ3GEYJ103V	10K 1/16W	[M]
R422	ERJ3GEYJ103V	10K 1/16W	[M]
R423	ERJ3GEYJ103V	10K 1/16W	[M]
R424	ERJ3GEYJ103V	10K 1/16W	[M]
R425	D0GB333JA002	33K 1/16W	[M]
R426	ERJ3GEYJ103V	10K 1/16W	[M]
R427	ERJ3GEYJ102V	1K 1/16W	[M]
R428	D0GB333JA002	33K 1/16W	[M]
R429	D0GB332JA002	3.3K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R430	D0GB273JA002	27K 1/16W	[M]
R431	D0GB302JA008	3K 1/16W	[M]
R432	ERJ3GEYJ102V	1K 1/16W	[M]
R433	D0GB271JA002	270 1/16W	[M]
R434	D0GB392JA002	3.9K 1/16W	[M]
R435	ERJ3GEYJ223V	22K 1/16W	[M]
R436	D0GB392JA002	3.9K 1/16W	[M]
R437	ERJ3GEYJ223V	22K 1/16W	[M]
R438	ERJ3GEYJ102V	1K 1/16W	[M]
R439	ERJ3GEYJ102V	1K 1/16W	[M]
R440	D0GB152JA002	1.5K 1/16W	[M]
R441	D0GB272JA002	2.7K 1/16W	[M]
R442	D0GB563JA002	56K 1/16W	[M]
R443	D0GB563JA002	56K 1/16W	[M]
R444	ERJ3GEYJ104V	100K 1/16W	[M]
R445	ERJ3GEYJ682V	6.8K 1/16W	[M]
R446	D0GB273JA002	27K 1/16W	[M]
R447	ERJ3GEYJ103V	10K 1/16W	[M]
R448	D0GB333JA002	33K 1/16W	[M]
R449	D0GB220JA002	22 1/16W	[M]
R450	D0GB220JA002	22 1/16W	[M]
R451	D0GB220JA002	22 1/16W	[M]
R452	D0GB220JA002	22 1/16W	[M]
R453	ERJ3GEYJ472V	4.7K 1/16W	[M]
R454	D0GB100JA002	10 1/16W	[M]
R455	D0GB332JA002	3.3K 1/16W	[M]
R456	ERJ3GEYJ223V	22K 1/16W	[M]
R457	D0GB273JA002	27K 1/16W	[M]
R458	ERJ3GEYJ102V	1K 1/16W	[M]
R459	D0GB683JA002	68K 1/16W	[M]
R460	ERJ3GEYJ682V	6.8K 1/16W	[M]
R461	D0GB333JA002	33K 1/16W	[M]
R462	ERJ3GEYJ561V	560 1/16W	[M]
R463	ERJ3GEYJ472V	4.7K 1/16W	[M]
R464	ERJ3GEYJ222V	2.2K 1/16W	[M]
R465	ERJ3GEYJ222V	2.2K 1/16W	[M]
R466	ERJ3GEYJ104V	100K 1/16W	[M]
R467	D0GB272JA002	2.7K 1/16W	[M]
R468	D0GB332JA002	3.3K 1/16W	[M]
R469	ERJ3GEYJ222V	2.2K 1/16W	[M]
R701	ERJ3GEYJ472V	4.7K 1/16W	[M]
R706	ERJ3GEYJ470V	47 1/16W	[M]
R707	ERJ3GEYJ221V	220 1/16W	[M]
R708	D0GB105JA002	1M 1/16W	[M]
R709	ERJ3GEYJ104V	100K 1/16W	[M]
R710	ERJ3GEYJ472V	4.7K 1/16W	[M]
R711	ERJ3GEYJ331V	330 1/16W	[M]
R712	ERJ3GEYJ331V	330 1/16W	[M]
R713	ERJ3GEYJ331V	330 1/16W	[M]
R722	D0GB393JA002	39K 1/16W	[M]
R723	D0GB563JA002	56K 1/16W	[M]
R724	D0GB332JA002	3.3K 1/16W	[M]
R725	ERJ3GEY0R00V	0 1/16W	[M]
R726	ERJ3GEY0R00V	0 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R727	ERJ3GEYJ102V	1K 1/16W	[M]
R728	D0GB274JA002	270K 1/16W	[M]
R729	ERJ3GEYJ153V	15K 1/16W	[M]
R730	ERJ3GEYJ822V	8.2K 1/16W	[M]
R731	ERJ3GEYJ823V	82K 1/16W	[M]
R732	ERJ3GEYJ823V	82K 1/16W	[M]
R733	D0GB332JA002	3.3K 1/16W	[M]
R734	ERJ3GEYJ472V	4.7K 1/16W	[M]
R735	ERJ3GEYJ472V	4.7K 1/16W	[M]
R736	ERJ3GEYJ103V	10K 1/16W	[M]
R737	ERJ3GEYJ223V	22K 1/16W	[M]
R738	ERJ3GEYJ472V	4.7K 1/16W	[M]
R739	ERJ3GEYJ104V	100K 1/16W	[M]
R740	ERJ3GEYJ153V	15K 1/16W	[M]
R750	ERDS1FVJ471T	470 1/2W	[M]
R751	ERD2FCVJ4R7T	4.7 1/4W	[M]
R757	D0GB122JA019	1.2K 1/16W	[M]
R758	ERJ3GEYJ103V	10K 1/16W	[M]
R759	ERJ3GEYJ331V	330 1/16W	[M]
R760	ERJ3GEYJ471V	470 1/16W	[M]
R761	ERJ3GEYJ182V	1.8K 1/16W	[M]
R762	D0GB272JA002	2.7K 1/16W	[M]
R763	D0GB272JA002	2.7K 1/16W	[M]
R764	ERJ3GEYJ472V	4.7K 1/16W	[M]
R765	D0GB151JA008	150 1/16W	[M]
R766	ERJ3GEYJ561V	560 1/16W	[M]
R767	D0GB272JA002	2.7K 1/16W	[M]
R768	D0GB151JA008	150 1/16W	[M]
R769	D0GB821JA002	820 1/16W	[M]
R770	ERD2FCVJ4R7T	4.7 1/4W	[M] ⚠
R771	ERJ3GEYJ472V	4.7K 1/16W	[M]
R772	ERJ3GEYJ471V	470 1/16W	[M]
R773	ERD2FCVJ4R7T	4.7 1/4W	[M]
R774	D0GB1R0JA002	1 1/16W	[M]
R775	D0GB1R0JA002	1 1/16W	[M]
R776	D0GB1R0JA002	1 1/16W	[M]
R777	D0GB1R0JA002	1 1/16W	[M]
R778	D0GB1R0JA002	1 1/16W	[M]
R779	ERJ3GEY0R00V	0 1/16W	[M]
R780	ERJ3GEY0R00V	0 1/16W	[M]
R801	ERJ3GEYJ681V	680 1/16W	[M]
R802	ERJ3GEYJ473V	47K 1/16W	[M]
R803	ERJ3GEYJ471V	470 1/16W	[M]
R804	ERJ3GEYJ223V	22K 1/16W	[M]
R805	ERJ3GEYJ103V	10K 1/16W	[M]
R807	ERJ3GEYJ103V	10K 1/16W	[M]
R808	ERJ3GEYJ221V	220 1/16W	[M]
R809	ERJ3GEYJ221V	220 1/16W	[M]
R810	ERJ3GEYJ221V	220 1/16W	[M]
R811	ERJ3GEYJ221V	220 1/16W	[M]
R812	ERJ3GEYJ221V	220 1/16W	[M]
R813	ERJ3GEYJ221V	220 1/16W	[M]
R814	ERJ3GEYJ103V	10K 1/16W	[M]
R815	ERJ3GEYJ102V	1K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R817	ERJ3GEYJ221V	220 1/16W	[M]
R818	ERJ3GEYJ221V	220 1/16W	[M]
R819	ERJ3GEYJ221V	220 1/16W	[M]
R820	ERJ3GEYJ221V	220 1/16W	[M]
R821	ERJ3GEYJ221V	220 1/16W	[M]
R822	ERJ3GEYJ221V	220 1/16W	[M]
R823	ERJ3GEYJ221V	220 1/16W	[M]
R824	ERJ3GEYJ221V	220 1/16W	[M]
R825	ERJ3GEYJ221V	220 1/16W	[M]
R826	ERJ3GEYJ103V	10K 1/16W	[M]
R827	ERJ3GEYJ103V	10K 1/16W	[M]
R828	ERJ3GEYJ331V	330 1/16W	[M]
R829	ERJ3GEYJ681V	680 1/16W	[M]
R830	ERJ3GEYJ681V	680 1/16W	[M]
R831	ERJ3GEYJ681V	680 1/16W	[M]
R832	D0GB101JA002	100 1/16W	[M]
R833	ERJ3GEYJ102V	1K 1/16W	[M]
R834	ERJ3GEYJ102V	1K 1/16W	[M]
R835	ERJ3GEYJ221V	220 1/16W	[M]
R836	ERJ3GEYJ221V	220 1/16W	[M]
R837	ERJ3GEYJ331V	330 1/16W	[M]
R838	ERJ3GEYJ331V	330 1/16W	[M]
R839	ERJ3GEYJ102V	1K 1/16W	[M]
R840	ERJ3GEYJ182V	1.8K 1/16W	[M]
R841	ERJ3GEYJ103V	10K 1/16W	[M]
R842	ERJ3GEYJ102V	1K 1/16W	[M]
R843	ERJ3GEYJ102V	1K 1/16W	[M]
R844	ERJ3GEYJ102V	1K 1/16W	[M]
R845	ERJ3GEY0R00V	0 1/16W	[M]
R846	ERJ3GEYJ223V	22K 1/16W	[M]
R847	ERJ3GEYJ223V	22K 1/16W	[M]
R848	ERJ3GEYJ472V	4.7K 1/16W	[M]
R850	ERJ3GEYJ221V	220 1/16W	[M]
R851	ERJ3GEYJ331V	330 1/16W	[M]
R852	D0GB393JA002	39K 1/16W	[M]
R853	ERJ3GEYJ472V	4.7K 1/16W	[M]
R854	ERJ3GEYJ104V	100K 1/16W	[M]
R855	ERJ3GEYJ331V	330 1/16W	[M]
R856	ERJ3GEYJ331V	330 1/16W	[M]
R857	ERJ3GEYJ331V	330 1/16W	[M]
R858	D0GB272JA002	2.7K 1/16W	[M]
R859	ERJ3GEYJ331V	330 1/16W	[M]
R860	ERJ3GEYJ331V	330 1/16W	[M]
R861	ERJ3GEYJ331V	330 1/16W	[M]
R862	ERJ3GEYJ221V	220 1/16W	[M]
R863	ERJ3GEYJ223V	22K 1/16W	[M]
R864	ERJ3GEYJ223V	22K 1/16W	[M]
R865	ERJ3GEYJ221V	220 1/16W	[M]
R866	ERJ3GEYJ221V	220 1/16W	[M]
R867	ERJ3GEYJ102V	1K 1/16W	[M]
R868	ERJ3GEYJ102V	1K 1/16W	[M]
R869	ERJ3GEYJ102V	1K 1/16W	[M]
R870	ERJ3GEYJ103V	10K 1/16W	[M]
R871	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R872	ERJ3GEYJ103V	10K 1/16W	[M]
R873	ERJ3GEYJ102V	1K 1/16W	[M]
R874	ERJ3GEYJ102V	1K 1/16W	[M]
R875	ERJ3GEYJ221V	220 1/16W	[M]
R876	ERJ3GEYJ331V	330 1/16W	[M]
R877	ERJ3GEYJ331V	330 1/16W	[M]
R878	ERJ3GEYJ221V	220 1/16W	[M]
R879	ERJ3GEYJ221V	220 1/16W	[M]
R880	ERJ3GEYJ221V	220 1/16W	[M]
R881	ERJ3GEYJ221V	220 1/16W	[M]
R882	D0GB101JA002	100 1/16W	[M]
R883	ERJ3GEYJ221V	220 1/16W	[M]
R884	ERJ3GEYJ153V	15K 1/16W	[M]
R885	ERJ3GEYJ103V	10K 1/16W	[M]
R887	ERJ3GEYJ103V	10K 1/16W	[M]
R888	D0GB821JA002	820 1/16W	[M]
R889	ERJ3GEYJ103V	10K 1/16W	[M]
R890	D0GB101JA002	100 1/16W	[M]
R891	ERJ3GEYJ103V	10K 1/16W	[M]
R892	ERJ3GEYJ102V	1K 1/16W	[M]
R893	ERJ3GEYJ102V	1K 1/16W	[M]
R894	ERJ3GEYJ104V	100K 1/16W	[M]
R895	ERJ3GEYJ102V	1K 1/16W	[M]
R896	D0GB393JA002	39K 1/16W	[M]
R897	ERJ3GEYJ153V	15K 1/16W	[M]
R898	ERJ3GEYJ221V	220 1/16W	[M]
R899	ERJ3GEYJ221V	220 1/16W	[M]
R900	D0GB272JA002	2.7K 1/16W	[M]
R901	ERJ3GEYJ222V	2.2K 1/16W	[M]
R902	ERJ3GEYJ182V	1.8K 1/16W	[M]
R903	D0GB122JA019	1.2K 1/16W	[M]
R904	ERJ3GEYJ102V	1K 1/16W	[M]
R905	ERJ3GEYJ182V	1.8K 1/16W	[M]
R906	ERJ3GEYJ391V	390 1/16W	[M]
R907	ERJ3GEYJ391V	390 1/16W	[M]
R908	ERJ3GEYJ391V	390 1/16W	[M]
R909	ERJ3GEYJ391V	390 1/16W	[M]
R910	ERJ3GEYJ391V	390 1/16W	[M]
R911	D0GB151JA008	150 1/16W	[M]
R912	D0GB151JA008	150 1/16W	[M]
R913	ERJ3GEYJ223V	22K 1/16W	[M]
R914	D0GB273JA002	27K 1/16W	[M]
R915	D0GB332JA002	3.3K 1/16W	[M]
R916	D0GB332JA002	3.3K 1/16W	[M]
R917	D0GB332JA002	3.3K 1/16W	[M]
R918	ERJ3GEYJ391V	390 1/16W	[M]
R919	ERJ3GEYJ391V	390 1/16W	[M]
R920	ERJ3GEYJ391V	390 1/16W	[M]
R921	ERJ3GEYJ391V	390 1/16W	[M]
R922	ERJ3GEYJ102V	1K 1/16W	[M]
R923	ERJ3GEYJ102V	1K 1/16W	[M]
R924	D0GB122JA019	1.2K 1/16W	[M]
R925	ERJ3GEYJ182V	1.8K 1/16W	[M]
R926	ERJ3GEYJ222V	2.2K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R927	D0GB332JA002	3.3K 1/16W	[M]
R928	ERJ3GEYJ223V	22K 1/16W	[M]
R929	ERJ3GEYJ223V	22K 1/16W	[M]
R930	ERJ3GEYJ103V	10K 1/16W	[M]
R931	ERJ3GEYJ470V	47 1/16W	[M]
R932	ERJ3GEYJ472V	4.7K 1/16W	[M]
R933	D0GB271JA002	270 1/16W	[M]
R935	ERJ3GEYJ391V	390 1/16W	[M]
R938	ERJ3GEYJ102V	1K 1/16W	[M]
R942	ERJ3GEY0R00V	0 1/16W	[M]
R944	ERJ3GEYJ472V	4.7K 1/16W	[M]
R945	ERJ3GEYJ102V	1K 1/16W	[M]
R946	ERJ3GEYJ102V	1K 1/16W	[M]
R959	D0GB151JA008	150 1/16W	[M]
R960	D0GB151JA008	150 1/16W	[M]
R961	D0GB151JA008	150 1/16W	[M]
R962	D0GB151JA008	150 1/16W	[M]
R963	D0GB151JA008	150 1/16W	[M]
R964	D0GB151JA008	150 1/16W	[M]
R965	ERJ3GEYD750V	75 1/16W	[M]
R966	ERJ3GEYD750V	75 1/16W	[M]
R967	ERJ3GEYD750V	75 1/16W	[M]
R968	ERJ3GEYD750V	75 1/16W	[M]
R969	ERJ3GEYD750V	75 1/16W	[M]
R970	ERJ3GEYJ471V	470 1/16W	[M]
R971	ERJ3GEYD750V	75 1/16W	[M]
R972	ERJ3GEYJ471V	470 1/16W	[M]
R973	D0GB333JA002	33K 1/16W	[M]
R974	D0GB562JA002	5.6K 1/16W	[M]
R975	ERJ3GEYJ103V	10K 1/16W	[M]
R976	ERJ3GEYJ471V	470 1/16W	[M]
R977	ERJ3GEYJ103V	10K 1/16W	[M]
R978	D0GB683JA002	68K 1/16W	[M]
R979	ERJ3GEYJ394V	390K 1/16W	[M]
R2011	J0JBC0000015	INDUCTOR	[M]
R2012	D0GB752JA002	7.5K 1/16W	[M]
R2013	J0JBC0000015	INDUCTOR	[M]
R2014	ERJ3GEYJ223V	22K 1/16W	[M]
R2015	J0JBC0000015	INDUCTOR	[M]
R2016	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2017	J0JBC0000015	INDUCTOR	[M]
R2018	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2021	ERJ3GEYJ153V	15K 1/16W	[M]
R2022	ERJ3GEYJ103V	10K 1/16W	[M]
R2023	ERJ3GEYJ153V	15K 1/16W	[M]
R2031	D0GB683JA002	68K 1/16W	[M]
R2032	ERJ3GEYJ102V	1K 1/16W	[M]
R2033	ERJ3RBD153V	15K 3W	[M]
R2041	ERJ3GEYJ473V	47K 1/16W	[M]
R2051	ERJ3RBD392V	3.9K 3W	[M]
R2501	D0GB101JA002	100 1/16W	[M]
R2502	D0GB101JA002	100 1/16W	[M]
R2503	ERJ3GEY0R00V	0 1/16W	[M]
R2504	ERJ14YKR39H	0.39 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2521	D0GF6R8JA017	6.8 1/16W	[M]
R2522	ERJ3GEY0R00V	0 1/16W	[M]
R2523	ERJ3GEY0R00V	0 1/16W	[M]
R2524	ERJ3GEY0R00V	0 1/16W	[M]
R3001	J0JCC0000119	INDUCTOR	[M]
R3002	ERJ3GEYJ103V	10K 1/16W	[M]
R3003	ERJ3GEYJ103V	10K 1/16W	[M]
R3012	ERJ3GEYJ473V	47K 1/16W	[M]
R3013	ERJ3GEYJ330V	33 1/16W	[M]
R3041	D0GB101JA002	100 1/16W	[M]
R3042	D0GB101JA002	100 1/16W	[M]
R3043	D0GB101JA002	100 1/16W	[M]
R3101	ERJ3RBD153V	15K 3W	[M]
R3102	ERJ3RBD202V	2K 3W	[M]
R3103	ERJ3RBD223V	22K 3W	[M]
R3104	ERJ3RBD222V	2.2K 3W	[M]
R3105	ERJ3RBD152V	1.5K 3W	[M]
R3111	ERJ3RED620V	62 3W	[M]
R3112	ERJ3RED150V	15 3W	[M]
R3116	ERJ3RED620V	62 3W	[M]
R3117	ERJ3RED130V	13 3W	[M]
R3121	ERJ3RBD101V	100 3W	[M]
R3122	ERJ3RED120V	12 3W	[M]
R3126	ERJ3RED560V	56 3W	[M]
R3131	ERJ3RED560V	56 3W	[M]
R4213	ERJ3GEYJ470V	47 1/16W	[M]
R5101	ERJ3GEYJ472V	4.7K 1/16W	[M]
R5111	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R5112	ERJ12YJ270H	27 1/2W	[M]
R5113	ERJ3GEYJ473V	47K 1/16W	[M]
R5114	ERJ3GEYJ223V	22K 1/16W	[M]
R5115	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R5116	ERJ12YJ270H	27 1/2W	[M]
R5117	ERJ3GEYJ473V	47K 1/16W	[M]
R5121	D0GB560JA002	56 1/16W	[M]
R5122	D0GB560JA002	56 1/16W	[M]
R5123	D0GB560JA002	56 1/16W	[M]
R5124	D0GB560JA002	56 1/16W	[M]
R5125	D0GB560JA002	56 1/16W	[M]
R5126	ERJ3GEYJ102V	1K 1/16W	[M]
R5127	D0GB560JA002	56 1/16W	[M]
R5201	ERJ3GEY0R00V	0 1/16W	[M]
R5202	ERJ3GEY0R00V	0 1/16W	[M]
R5221	ERJ3GEY0R00V	0 1/16W	[M]
R5222	ERJ3GEYJ102V	1K 1/16W	[M]
R5223	ERJ3GEYJ331V	330 1/16W	[M]
R5225	ERJ3GEY0R00V	0 1/16W	[M]
R5226	ERJ3GEYJ102V	1K 1/16W	[M]
R5227	ERJ3GEYJ331V	330 1/16W	[M]
R5231	J0JCC0000119	INDUCTOR	[M]
R5232	J0JCC0000119	INDUCTOR	[M]
R5233	ERJ3GEYJ222V	2.2K 1/16W	[M]
R5234	ERJ3GEYJ222V	2.2K 1/16W	[M]
R6201	ERJ3GEYJ472V	4.7K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R6203	ERJ3GEY0R00V	0 1/16W	[M]
R6261	ERJ3GEYJ103V	10K 1/16W	[M]
R6311	ERJ3GEYJ103V	10K 1/16W	[M]
R6312	ERJ3GEYJ103V	10K 1/16W	[M]
R6351	D0GB101JA002	100 1/16W	[M]
R6562	ERJ3GEYJ221V	220 1/16W	[M]
R6563	ERJ3GEYJ103V	10K 1/16W	[M]
R6564	D0GB100JA002	10 1/16W	[M]
R6565	ERJ3GEYJ470V	47 1/16W	[M]
K2041	ERJ3GEY0R00V	0 1/16W	[M]
K2501	ERJ3GEY0R00V	0 1/16W	[M]
K2502	ERJ3GEY0R00V	0 1/16W	[M]
K2522	ERJ3GEY0R00V	0 1/16W	[M]
K3011	ERJ6GEY0R00V	0 1/10W	[M]
K3012	ERJ3GEY0R00V	0 1/16W	[M]
K3013	ERJ3GEY0R00V	0 1/16W	[M]
K3014	ERJ3GEY0R00V	0 1/16W	[M]
K3015	ERJ3GEY0R00V	0 1/16W	[M]
K3016	ERJ3GEY0R00V	0 1/16W	[M]
K3017	ERJ3GEY0R00V	0 1/16W	[M]
K3111	ERJ3GEY0R00V	0 1/16W	[M]
K3116	ERJ3GEY0R00V	0 1/16W	[M]
K3121	ERJ3GEY0R00V	0 1/16W	[M]
K3126	ERJ3GEY0R00V	0 1/16W	[M]
K3131	ERJ3GEY0R00V	0 1/16W	[M]
K5201	ERJ3GEY0R00V	0 1/16W	[M]
K5202	ERJ3GEY0R00V	0 1/16W	[M]
K5203	ERJ3GEY0R00V	0 1/16W	[M]
K5204	ERJ3GEY0R00V	0 1/16W	[M]
K6253	ERJ6GEY0R00V	0 1/10W	[M]
K6254	ERJ3GEY0R00V	0 1/16W	[M]
K6301	ERJ3GEY0R00V	0 1/16W	[M]
K6302	ERJ3GEY0R00V	0 1/16W	[M]
RA2025	EXBV4V473JV	47K 1/16W	[M]
RA2501	EXBV4V103JV	10K 1/16W	[M]
RA2521	EXBV8V473JV	47K 1/16W	[M]
RA3001	EXBV8V820JV	82 1/16W	[M]
RA3002	EXBV8V820JV	82 1/16W	[M]
RA3003	EXBV8V820JV	82 1/16W	[M]
RA3004	EXBV8V820JV	82 1/16W	[M]
RA3005	EXBV4V220JV	22 1/16W	[M]
RA3006	EXBV8V820JV	82 1/16W	[M]
RA3007	EXBV8V820JV	82 1/16W	[M]
RA3008	EXBV8V820JV	82 1/16W	[M]
RA3009	EXBV8V820JV	82 1/16W	[M]
RA3010	EXBV8V820JV	82 1/16W	[M]
RA3011	EXBV8V820JV	82 1/16W	[M]
RA3012	EXBV8V820JV	82 1/16W	[M]
RA3025	EXBV4V102JV	1K 1/16W	[M]
RA3041	EXBV4V101JV	100 1/16W	[M]
RA3042	EXBV4V101JV	100 1/16W	[M]
RA5121	EXBV8V560JV	56 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
RA5122	**EXBV4V560JV**	**56 1/16W**	**[M]**
RA5123	**EXBV4V560JV**	**56 1/16W**	**[M]**
RA6201	**EXBV4V472JV**	**4.7K 1/16W**	**[M]**
RA6261	**EXBV4V103JV**	**10K 1/16W**	**[M]**
RA6351	**EXBV4V472JV**	**4.7K 1/16W**	**[M]**
		CAPACITORS	
C4	**ECJ1VB1H103K**	**0.01 50V**	**[M]**
C5	**ECEA1EKA330B**	**33 25V**	**[M]**
C7	**ECEA1CKA100B**	**10 16V**	**[M]**
C8	**EEUFC0J821B**	**820P 6.3V**	**[M]**
C9	**ECA1EM221B**	**220 25V**	**[M]**
C10	**ECUVNA105KBV**	**1 10V**	**[M]**
C11	**ECUVNA105KBV**	**1 10V**	**[M]**
C12	**ECEA0JKA221B**	**220 6.3V**	**[M]**
C13	**ECUVNA105KBV**	**1 10V**	**[M]**
C14	**ECUVNA105KBV**	**1 10V**	**[M]**
C15	**ECA1EM221B**	**220 25V**	**[M]**
C16	**EEUFC0J821B**	**820P 6.3V**	**[M]**
C17	**ECEA1CKA100B**	**10 16V**	**[M]**
C18	**ECUVNA105KBV**	**1 10V**	**[M]**
C21	**ECEA1AKA101B**	**100 10V**	**[M]**
C22	**ECUV1C104KBV**	**0.1 16V**	**[M]**
C25	**ECUVNA105KBV**	**1 10V**	**[M]**
C26	**ECEA0JKA221B**	**220 6.3V**	**[M]**
C27	**ECUVNA105KBV**	**1 10V**	**[M]**
C28	**ECEA0JKA221B**	**220 6.3V**	**[M]**
C29	**ECUVNA105KBV**	**1 10V**	**[M]**
C30	**ECEA1AKA101B**	**100 10V**	**[M]**
C31	**ECUV1H104KBV**	**0.1 50V**	**[M]**
C32	**ECUV1H104KBV**	**0.1 50V**	**[M]**
C33	**ECJ1VB1H681K**	**680P 50V**	**[M]**
C34	**ECJ1VB1H681K**	**680P 50V**	**[M]**
C40	**ECJ1VB1E103K**	**0.01 25V**	**[M]**
C41	**ECJ1VB1E103K**	**0.01 25V**	**[M]**
C50	**ECA1AAD221XI**	**220 10V**	**[M]**
C51	**ECA1CAD470XI**	**47 16V**	**[M]**
C52	**ECA1CAD470XI**	**47 16V**	**[M]**
C53	**ECJ1VB1H103K**	**0.01 50V**	**[M]**
C54	**ECJ1VC1H220J**	**22P 50V**	**[M]**
C55	**ECA1CAD470XI**	**47 16V**	**[M]**
C56	**ECJ1VB1H103K**	**0.01 50V**	**[M]**
C57	**ECA1CAD470XI**	**47 16V**	**[M]**
C58	**ECJ1VB1H103K**	**0.01 50V**	**[M]**
C59	**ECJ1VB1H103K**	**0.01 50V**	**[M]**
C60	**ECA1AM102B**	**1000 10V**	**[M]**
C61	**ECEA0JKA101B**	**100 6.3V**	**[M]**
C62	**ECA1AM102B**	**1000 10V**	**[M]**
C63	**ECEA0JKA101B**	**100 6.3V**	**[M]**
C64	**ECA0JM102B**	**1000 6.3V**	**[M]**
C65	**ECEA0JKA101B**	**100 6.3V**	**[M]**
C66	**ECEA0JKA331B**	**330 6.3V**	**[M]**
C67	**ECEA0JKA331B**	**330 6.3V**	**[M]**

Ref. No.	Part No.	Part Name & Description	Remarks
C68	ECEA1CKA470B	47 16V	[M]
C69	ECUV1C104KBV	0.1 16V	[M]
C72	ECUVNA105KBV	1 10V	[M]
C73	ECUVNA105KBV	1 10V	[M]
C74	ECJ1VB1H103K	0.01 50V	[M]
C75	F1J1A105A017	1 10V	[M]
C76	F1J1A105A017	1 10V	[M]
C77	ECJ1VB1H103K	0.01 50V	[M]
C78	ECA1CAD101XI	100 16V	[M]
C79	ECEA0JKS331I	330 6.3V	[M]
C80	F1J1H101A619	100P 50V	[M]
C81	F1J1H101A619	100P 50V	[M]
C82	F1J1H101A619	100P 50V	[M]
C83	F1J1H101A619	100P 50V	[M]
C84	F1J1H101A619	100P 50V	[M]
C85	F1J1H101A619	100P 50V	[M]
C86	ECUVNA105KBN	1 10V	[M]
C87	ECUVNA105KBN	1 10V	[M]
C101	ECJ1VB1E103K	0.01 25V	[M]
C102	ECEA1CKA101B	100 16V	[M]
C103	ECJ1VB1E103K	0.01 25V	[M]
C104	ECJ1VB1H102K	1000P 50V	[M]
C105	ECJ1VB1H102K	1000P 50V	[M]
C106	ECJ1VB1E103K	0.01 25V	[M]
C107	F1H1E473A062	0.047 25V	[M]
C108	F1H1H8R0A787	8.0P 50V	[M]
C109	ECJ1VB1H102K	1000P 50V	[M]
C110	ECJ1VB1E103K	0.01 25V	[M]
C111	ECEA1HKA4R7B	4.7 50V	[M]
C112	ECJ1VB1E103K	0.01 25V	[M]
C113	ECJ1VB1H102K	1000P 50V	[M]
C114	ECEA1HKA3R3B	3.3 50V	[M]
C115	ECEA1HKA4R7B	4.7 50V	[M]
C116	ECUV1C333KBV	0.033 16V	[M]
C117	ECJ1VB1E103K	0.01 25V	[M]
C118	ECJ1VB1E103K	0.01 25V	[M]
C119	F0A2A561A015	560P 100V	[M]
C120	ECEA1CKA100B	10 16V	[M]
C121	ECEA1HKAR47B	0.47 50V	[M]
C122	ECEA1HKA010B	1 50V	[M]
C123	ECEA1HKA010B	1 50V	[M]
C124	ECJ1VC1H101K	100P 50V	[M]
C125	ECEA1CKA220B	22 16V	[M]
C126	ECUV1C105ZFN	1 16V	[M]
C127	ECEA1CKA220B	22 16V	[M]
C128	ERJ3GEY0R00V	0 1/16W	[M]
C129	ECEA0JKA101B	100 6.3V	[M]
C130	ECEA0JKA101B	100 6.3V	[M]
C131	ECUV1H101JCV	100P 50V	[M]
C132	ECJ1VB1H102K	1000P 50V	[M]
C133	ECJ1VC1H270J	27P 50V	[M]
C134	ECJ1VC1H270J	27P 50V	[M]
C136	ECJ1VB1H102K	1000P 50V	[M]
C137	ECJ1VB1H332K	3300P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C138	ECJ1VB1E103K	0.01 25V	[M]
C139	ECEA1HKA4R7B	4.7 50V	[M]
C141	ECEA1HKA010B	1 50V	[M]
C142	ECEA1HKA010B	1 50V	[M]
C143	ECJ1VB1H472K	4700P 50V	[M]
C144	ECJ1VB1H472K	4700P 50V	[M]
C147	ECJ1VB1H102K	1000P 50V	[M]
C148	ECJ1VB1E103K	0.01 25V	[M]
C149	ECUV1C104ZFV	0.1 16V	[M]
C150	ECJ1VB1H103K	0.01 50V	[M]
C201	ECJ1VB1H221K	220P 50V	[M]
C202	ECJ1VB1H221K	220P 50V	[M]
C203	ECA1HAD4R7XI	4.7 50V	[M]
C204	ECJ1VC1H101K	100P 50V	[M]
C205	ECA1HAD3R3XI	3.3 50V	[M]
C206	ECJ1VC1H101K	100P 50V	[M]
C207	ECJ1VB1H332K	3300P 50V	[M]
C209	ECA1CAD100XI	10 16V	[M]
C210	ECJ1VC1H101K	100P 50V	[M]
C211	ECUV1H470JCV	47P 50V	[M]
C213	ECA1CAD100XI	10 16V	[M]
C214	ECJ1VC1H101K	100P 50V	[M]
C215	ECA1HAD010XI	1 50V	[M]
C217	ECA1CAD100XI	10 16V	[M]
C218	ECUVNA105KBV	1 10V	[M]
C219	ECA1CAD100XI	10 16V	[M]
C220	ECJ1VB1H471K	470P 50V	[M]
C221	ECJ1VC1H101K	100P 50V	[M]
C222	ECA1CAD100XI	10 16V	[M]
C223	ECJ1VB1H471K	470P 50V	[M]
C224	ECJ1VB1H471K	470P 50V	[M]
C225	ECUVNA105KBV	1 10V	[M]
C226	ECJ1VC1H101K	100P 50V	[M]
C227	ECJ1VC1H330J	33P 50V	[M]
C228	ECA1HAD4R7XI	4.7 50V	[M]
C229	ECJ1VB1H222K	2200P 50V	[M]
C230	ECA1HAD4R7XI	4.7 50V	[M]
C231	ECJ1VC1H101K	100P 50V	[M]
C232	ECA1CAD100XI	10 16V	[M]
C233	ECJ1VC1H101K	100P 50V	[M]
C234	ECUV1H470JCV	47P 50V	[M]
C235	ECA1HAD4R7XI	4.7 50V	[M]
C237	ECJ1VB1H102K	1000P 50V	[M]
C238	ECJ2VB1H153K	0.015 50V	[M]
C239	ECA1HADR33XI	0.33 50V	[M]
C240	ECUVNA105KBV	1 10V	[M]
C241	ECUVNA105KBV	1 10V	[M]
C242	ECA1HAD010XI	1 50V	[M]
C243	ECJ1VC1H101K	100P 50V	[M]
C244	ECA1CAD100XI	10 16V	[M]
C245	ECJ1VC1H101K	100P 50V	[M]
C246	ECUV1H470JCV	47P 50V	[M]
C248	ECJ1VB1H102K	1000P 50V	[M]
C249	ECA1HADR47XI	0.47 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C250	ECJ1VC1H101K	100P 50V	[M]
C251	ECJ1VC1H330J	33P 50V	[M]
C252	ECA1CAD100XI	10 16V	[M]
C253	ECJ2VB1H333K	0.033 50V	[M]
C254	ECUV1H104KBV	0.1 50V	[M]
C255	ECJ1VC1H101K	100P 50V	[M]
C256	ECA1HAD4R7XI	4.7 50V	[M]
C257	ECA1CAD100XI	10 16V	[M]
C258	ECJ1VC1H330J	33P 50V	[M]
C260	ECUVNA105KBV	1 10V	[M]
C263	ECA1CAD100XI	10 16V	[M]
C264	ECJ1VC1H101K	100P 50V	[M]
C265	ECUVNA105KBV	1 10V	[M]
C272	ECUVNA105KBV	1 10V	[M]
C301	ECEA1HKN4R7B	4.7 50V	[M]
C303	ECJ1VB1E103K	0.01 25V	[M]
C304	ECJ1VB1E103K	0.01 25V	[M]
C305	ECA1CAD100XI	10 16V	[M]
C306	ECUVNA105KBV	1 10V	[M]
C307	ECJ1VB1E103K	0.01 25V	[M]
C308	ECJ1VB1H471K	470P 50V	[M]
C310	ECJ1VB1H471K	470P 50V	[M]
C311	ECUVNA105KBV	1 10V	[M]
C312	ECJ1VC1H330J	33P 50V	[M]
C313	ECJ1VC1H101K	100P 50V	[M]
C314	ECA1CAD100XI	10 16V	[M]
C315	ECUVNA105KBV	1 10V	[M]
C316	ECJ1VC1H101K	100P 50V	[M]
C317	ECUVNA105KBV	1 10V	[M]
C318	ECUVNA105KBV	1 10V	[M]
C322	ECJ1VB1H222K	2200P 50V	[M]
C324	ECJ1VB1H222K	2200P 50V	[M]
C325	ECUVNA105KBV	1 10V	[M]
C326	ECA1CAD100XI	10 16V	[M]
C327	ECUVNA105KBV	1 10V	[M]
C328	ECUVNA105KBV	1 10V	[M]
C329	ECJ1VB1H102K	1000P 50V	[M]
C330	ECA1CAD100XI	10 16V	[M]
C331	ECA1HAD0R1XI	0.1 50V	[M]
C332	ECJ1VB1H102K	1000P 50V	[M]
C333	ECJ1VC1H101K	100P 50V	[M]
C334	ECJ1VB1E103K	0.01 25V	[M]
C335	ECA1CAD100XI	10 16V	[M]
C336	ECJ1VC1H101K	100P 50V	[M]
C337	ECJ1VC1H330J	33P 50V	[M]
C338	ECA1HADR47XI	0.47 50V	[M]
C339	ECUV1H470JCV	47P 50V	[M]
C340	ECUV1H470JCV	47P 50V	[M]
C341	ECUV1H470JCV	47P 50V	[M]
C342	ECJ1VB1E103K	0.01 25V	[M]
C344	ECJ1VB1E103K	0.01 25V	[M]
C346	ECJ1VB1E103K	0.01 25V	[M]
C348	ECJ1VB1E103K	0.01 25V	[M]
C349	ECJ1VB1E103K	0.01 25V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C350	ECJ1VB1E103K	0.01 25V	[M]
C351	ECJ1VB1E103K	0.01 25V	[M]
C352	ECJ1VB1E103K	0.01 25V	[M]
C353	ECUV1C104KBV	0.1 16V	[M]
C354	ECUV1H470JCV	47P 50V	[M]
C355	ECUV1H470JCV	47P 50V	[M]
C356	ECUV1C104KBV	0.1 16V	[M]
C357	ECUV1C104KBV	0.1 16V	[M]
C358	ECA1HAD4R7XI	4.7 50V	[M]
C360	ECA1HAD4R7XI	4.7 50V	[M]
C361	ECA1HAD4R7XI	4.7 50V	[M]
C362	ECA1HAD4R7XI	4.7 50V	[M]
C363	ECA1HAD4R7XI	4.7 50V	[M]
C365	ECA1HAD4R7XI	4.7 50V	[M]
C376	ECJ1VB1E103K	0.01 25V	[M]
C377	ECJ1VB1E103K	0.01 25V	[M]
C378	F1J1A105A017	1 10V	[M]
C379	F1J1A105A017	1 10V	[M]
C380	ECJ1VB1H102K	1000P 50V	[M]
C401	ECJ1VB1H221K	220P 50V	[M]
C402	ECJ1VB1H221K	220P 50V	[M]
C403	ECA1HAD4R7XI	4.7 50V	[M]
C404	ECJ1VC1H101K	100P 50V	[M]
C405	ECA1HAD3R3XI	3.3 50V	[M]
C406	ECJ1VC1H101K	100P 50V	[M]
C407	ECJ1VB1H332K	3300P 50V	[M]
C409	ECA1CAD100XI	10 16V	[M]
C410	ECJ1VC1H101K	100P 50V	[M]
C411	ECUV1H470JCV	47P 50V	[M]
C413	ECA1CAD100XI	10 16V	[M]
C414	ECJ1VC1H101K	100P 50V	[M]
C415	ECA1HAD010XI	1 50V	[M]
C417	ECA1CAD100XI	10 16V	[M]
C418	ECUVNA105KBV	1 10V	[M]
C419	ECA1CAD100XI	10 16V	[M]
C420	ECJ1VB1H471K	470P 50V	[M]
C421	ECJ1VC1H101K	100P 50V	[M]
C422	ECA1CAD100XI	10 16V	[M]
C423	ECJ1VB1H471K	470P 50V	[M]
C424	ECJ1VB1H471K	470P 50V	[M]
C425	ECUVNA105KBV	1 10V	[M]
C426	ECJ1VC1H101K	100P 50V	[M]
C427	ECJ1VC1H330J	33P 50V	[M]
C428	ECA1HAD4R7XI	4.7 50V	[M]
C429	ECJ1VB1H222K	2200P 50V	[M]
C430	ECA1HAD4R7XI	4.7 50V	[M]
C431	ECJ1VC1H101K	100P 50V	[M]
C432	ECA1CAD100XI	10 16V	[M]
C433	ECJ1VC1H101K	100P 50V	[M]
C434	ECUV1H470JCV	47P 50V	[M]
C435	ECA1HAD4R7XI	4.7 50V	[M]
C437	ECJ1VB1H102K	1000P 50V	[M]
C438	ECJ2VB1H153K	0.015 50V	[M]
C439	ECA1HADR33XI	0.33 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C440	ECUVNA105KBV	1 10V	[M]
C441	ECUVNA105KBV	1 10V	[M]
C442	ECA1HAD010XI	1 50V	[M]
C443	ECJ1VC1H101K	100P 50V	[M]
C444	ECA1CAD100XI	10 16V	[M]
C445	ECJ1VC1H101K	100P 50V	[M]
C446	ECUV1H470JCV	47P 50V	[M]
C448	ECJ1VB1H102K	1000P 50V	[M]
C449	ECA1HADR47XI	0.47 50V	[M]
C450	ECJ1VC1H101K	100P 50V	[M]
C451	ECJ1VC1H330J	33P 50V	[M]
C452	ECA1CAD100XI	10 16V	[M]
C453	ECJ2VB1H333K	0.033 50V	[M]
C454	ECUV1H104KBV	0.1 50V	[M]
C455	ECJ1VC1H101K	100P 50V	[M]
C456	ECA1HAD4R7XI	4.7 50V	[M]
C457	ECA1CAD100XI	10 16V	[M]
C458	ECJ1VC1H330J	33P 50V	[M]
C460	ECUVNA105KBV	1 10V	[M]
C463	ECA1CAD100XI	10 16V	[M]
C464	ECJ1VC1H101K	100P 50V	[M]
C465	ECUVNA105KBV	1 10V	[M]
C472	ECUVNA105KBV	1 10V	[M]
C704	ECJ1VB1E103K	0.01 25V	[M]
C705	ECA1HAD4R7XI	4.7 50V	[M]
C706	ECA1AAD221XI	220 10V	[M]
C707	ECA1HAD4R7XI	4.7 50V	[M]
C708	ECUV1C104KBV	0.1 16V	[M]
C709	F1H1H5R0A759	5P 50V	[M]
C710	ECUV1H120JCV	12P 50V	[M]
C711	ECUVNA105KBV	1 10V	[M]
C712	ECUVNA105KBV	1 10V	[M]
C713	ECUVNA105KBV	1 10V	[M]
C714	ECUVNA105KBV	1 10V	[M]
C715	EEAFC0J101H	100P 6.3V	[M]
C716	ECA1CAD470XI	47 16V	[M]
C717	EEAFC0J101H	100P 6.3V	[M]
C718	ECUVNA105KBV	1 10V	[M]
C719	ECUV1C104KBV	0.1 16V	[M]
C720	ECUV1C104KBV	0.1 16V	[M]
C721	ECUVNA105KBV	1 10V	[M]
C722	ECUV1C104KBV	0.1 16V	[M]
C723	F1H1H223A761	0.022 50V	[M]
C724	ECUV1C104KBV	0.1 16V	[M]
C725	ECA1CAD101XI	100 16V	[M]
C726	F1H1H223A761	0.022 50V	[M]
C729	ECJ1VC1H101K	100P 50V	[M]
C731	ECJ1VB1E103K	0.01 25V	[M]
C732	ECA1CAD100XI	10 16V	[M]
C733	ECUV1H104KBV	0.1 50V	[M]
C734	F1H1C393A089	0.039 16V	[M]
C735	ECUVNA154KBV	0.1 10V	[M]
C736	ECJ1VB1H562K	5600P 50V	[M]
C737	ECUV1H473KBV	0.047 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C739	ECA1CAD470XI	47 16V	[M]
C740	ECA1CAD470XI	47 16V	[M]
C741	ECA1CAD100XI	10 16V	[M]
C742	ECJ1VB1E103K	0.01 25V	[M]
C750	ECA1EM472B	4700 25V	[M]
C751	ECQE1104KF3	0.1 100V	[M]
C752	ECEA1VKS470I	47 35V	[M]
C753	ECA1HM221B	220 50V	[M]
C754	ECA1EM102B	1000 25V	[M]
C755	ECA1HM101B	100 50V	[M]
C756	ECA1JM101B	100 63V	[M]
C757	ECA1EM102B	1000 25V	[M]
C758	ECA1HM101B	100 50V	[M]
C759	ECA1JM101B	100 63V	[M]
C760	ECA1JM101B	100 63V	[M]
C761	ECJ1VB1H103K	0.01 50V	[M]
C762	ECA1HM101B	100 50V	[M]
C763	ECJ1VB1H103K	0.01 50V	[M]
C764	ECEA1EKA330B	33 25V	[M]
C765	ECJ1VB1H103K	0.01 50V	[M]
C766	ECJ1VB1H103K	0.01 50V	[M]
C767	ECA1EM101B	100 25V	[M]
C768	ECEA1EKA330B	33 25V	[M]
C769	ECJ1VB1H103K	0.01 50V	[M]
C770	ECA1CAD101XI	100 16V	[M]
C772	ECJ1VB1H103K	0.01 50V	[M]
C773	ECA1CAD100XI	10 16V	[M]
C774	ECA1EM101B	100 25V	[M]
C800	ECEA0JKA101B	100 6.3V	[M]
C801	ECUV1C104KBV	0.1 16V	[M]
C802	ECEA1AKA220B	22 10V	[M]
C803	ECJ1VB1E103K	0.01 25V	[M]
C804	RCE1AM102B	1000 10V	[M]
C805	ECEA1HKA2R2B	2.2 50V	[M]
C807	ECUV1C104KBV	0.1 16V	[M]
C809	ECUV1C104KBV	0.1 16V	[M]
C810	ECUV1C104KBV	0.1 16V	[M]
C811	F1H1H223A761	0.022 50V	[M]
C812	F1H1H331A022	330P 50V	[M]
C813	ECEA0JKA470B	47 6.3V	[M]
C814	ECJ1VB1H102K	1000P 50V	[M]
C815	ECJ1VB1H103K	0.01 50V	[M]
C816	ECJ1VC1H470J	47P 50V	[M]
C817	ECJ1VC1H470J	47P 50V	[M]
C818	ECUV1H561KBV	560P 50V	[M]
C819	ECEA1HKA100B	10 50V	[M]
C820	ECEA1HKA100B	10 50V	[M]
C821	F1H1H331A022	330P 50V	[M]
C823	ECEA1HKN4R7B	4.7 50V	[M]
C824	F1H1H331A022	330P 50V	[M]
C825	F1H1H331A022	330P 50V	[M]
C900	ECUV1H473KBV	0.047 50V	[M]
C901	ECUV1H473KBV	0.047 50V	[M]
C902	ECJ1VB1H102K	1000P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C903	ECEA1VKS220B	22 35V	[M]
C904	ECJ1VB1H103K	0.01 50V	[M]
C905	ECEA1VKS220B	22 35V	[M]
C907	ECEA1HKS3R3B	3.3 50V	[M]
C909	ECJ1VB1H103K	0.01 50V	[M]
C910	ECJ1VC1H390K	39P 50V	[M]
C911	ECEA0JKS101B	100 6.3V	[M]
C912	ECJ1VB1H103K	0.01 50V	[M]
C914	ECUV1H221JCV	220P 50V	[M]
C915	ECUV1H221JCV	220P 50V	[M]
C916	ECUV1H221JCV	220P 50V	[M]
C917	ECUV1H221JCV	220P 50V	[M]
C918	ECEA0JKS470B	47 6.3V	[M]
C919	ECJ1VB1H102K	1000P 50V	[M]
C921	ECJ1VC1H101K	100P 50V	[M]
C922	ECJ1VC1H101K	100P 50V	[M]
C931	ECEA1HKA010B	1 50V	[M]
C950	ECEA1HKA010B	1 50V	[M]
C951	ECEA1HKA010B	1 50V	[M]
C954	ECJ1VB1H103K	0.01 50V	[M]
C955	ECUV1H104KBV	0.1 50V	[M]
C956	ECEA0JKA101B	100 6.3V	[M]
C957	ECUV1H104KBV	0.1 50V	[M]
C958	ECEA0JKA101B	100 6.3V	[M]
C959	ECEA0JKA220B	22 6.3V	[M]
C960	ECEA0JKA101B	100 6.3V	[M]
C961	ECEA0JKA220B	22 6.3V	[M]
C962	ECEA0JKA101B	100 6.3V	[M]
C963	ECEA0JKA220B	22 6.3V	[M]
C964	ECEA0JKA331B	330 6.3V	[M]
C965	ECUVNA105KBV	1 10V	[M]
C2001	F2G0J1010013	100P 6.3V	[M]
C2002	EEVFC0J101P	100P 6.3V	[M]
C2003	ECUVNC104ZFV	0.1 16V	[M]
C2004	ECUVNC104ZFV	0.1 16V	[M]
C2005	ECUVNC104ZFV	0.1 16V	[M]
C2006	ECUVNC104ZFV	0.1 16V	[M]
C2011	ECUV1C104KBV	0.1 16V	[M]
C2012	ECUV1C104KBV	0.1 16V	[M]
C2015	ECJ1VC1H102J	1000P 50V	[M]
C2016	ECUV1H821JCV	820P 50V	[M]
C2021	ECJ1VB1H472K	4700P 50V	[M]
C2023	ECJ1VC1H102J	1000P 50V	[M]
C2031	ECJ1VF1A105Z	1 10V	[M]
C2032	ECJ1VF1A105Z	1 10V	[M]
C2033	F1H0J1050013	10 6.3V	[M]
C2034	ECJ1VB1H152K	1500P 50V	[M]
C2035	ECJ1VC1H221J	220P 50V	[M]
C2036	ECUV1C104KBV	0.1 16V	[M]
C2037	ECJ1VB1C103K	0.01 16V	[M]
C2051	ECUV1C333KBV	0.033 16V	[M]
C2052	ECJ1VC1H330J	33P 50V	[M]
C2053	ECUVNC104ZFV	0.1 16V	[M]
C2054	ECUVNC104ZFV	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2055	ECUVNC104ZFV	0.1 16V	[M]
C2056	ECJ1VB1C103K	0.01 16V	[M]
C2057	ECJ1VC1H181J	180P 50V	[M]
C2058	ECJ1VB1C183K	0.018 16V	[M]
C2059	ECJ1VB1H562K	5600P 50V	[M]
C2060	ECUV1C104KBV	0.1 16V	[M]
C2501	ECEV1CA101WP	100 16V	[M]
C2502	ECJ1VF1C104Z	0.1 16V	[M]
C2503	ECJ1VF1C104Z	0.1 16V	[M]
C2504	ECJ1VF1C104Z	0.1 16V	[M]
C2511	ECJ1VB1H103K	0.01 50V	[M]
C2512	ECJ1VB1H103K	0.01 50V	[M]
C2513	ECJ1VB1H103K	0.01 50V	[M]
C2514	ECUV1C104KBV	0.1 16V	[M]
C2521	EEVFC0J101P	100P 6.3V	[M]
C2522	ECEV1CA220WR	22 16V	[M]
C2523	EEVFC0J221P	220P 6.3V	[M]
C2524	ECJ1VF1C104Z	0.1 16V	[M]
C2525	ECJ1VF1C104Z	0.1 16V	[M]
C2526	ECJ1VF1C104Z	0.1 16V	[M]
C2527	ECJ1VF1C104Z	0.1 16V	[M]
C2528	ECJ1VF1C104Z	0.1 16V	[M]
C2529	ECJ1VF1C104Z	0.1 16V	[M]
C3001	F2G0J331A015	330P 6.3V	[M]
C3002	F2G0J331A015	330P 6.3V	[M]
C3003	ECUVNC104ZFV	0.1 16V	[M]
C3004	ECUVNC104ZFV	0.1 16V	[M]
C3005	ECUVNC104ZFV	0.1 16V	[M]
C3006	ECUVNC104ZFV	0.1 16V	[M]
C3007	ECUVNC104ZFV	0.1 16V	[M]
C3008	ECUVNC104ZFV	0.1 16V	[M]
C3009	ECUVNC104ZFV	0.1 16V	[M]
C3010	ECUVNC104ZFV	0.1 16V	[M]
C3011	ECUVNC104ZFV	0.1 16V	[M]
C3012	ECUVNC104ZFV	0.1 16V	[M]
C3013	ECUVNC104ZFV	0.1 16V	[M]
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C3017	ECUVNC104ZFV	0.1 16V	[M]
C3018	ECUVNC104ZFV	0.1 16V	[M]
C3019	ERJ3GEYJ331V	330P 1/16W	[M]
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C3021	ECUVNC104ZFV	0.1 16V	[M]
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C3028	ECUVNC104ZFV	0.1 16V	[M]
C3029	ECUVNC104ZFV	0.1 16V	[M]
C3031	ECUVNC104ZFV	0.1 16V	[M]
C3032	ECUVNC104ZFV	0.1 16V	[M]

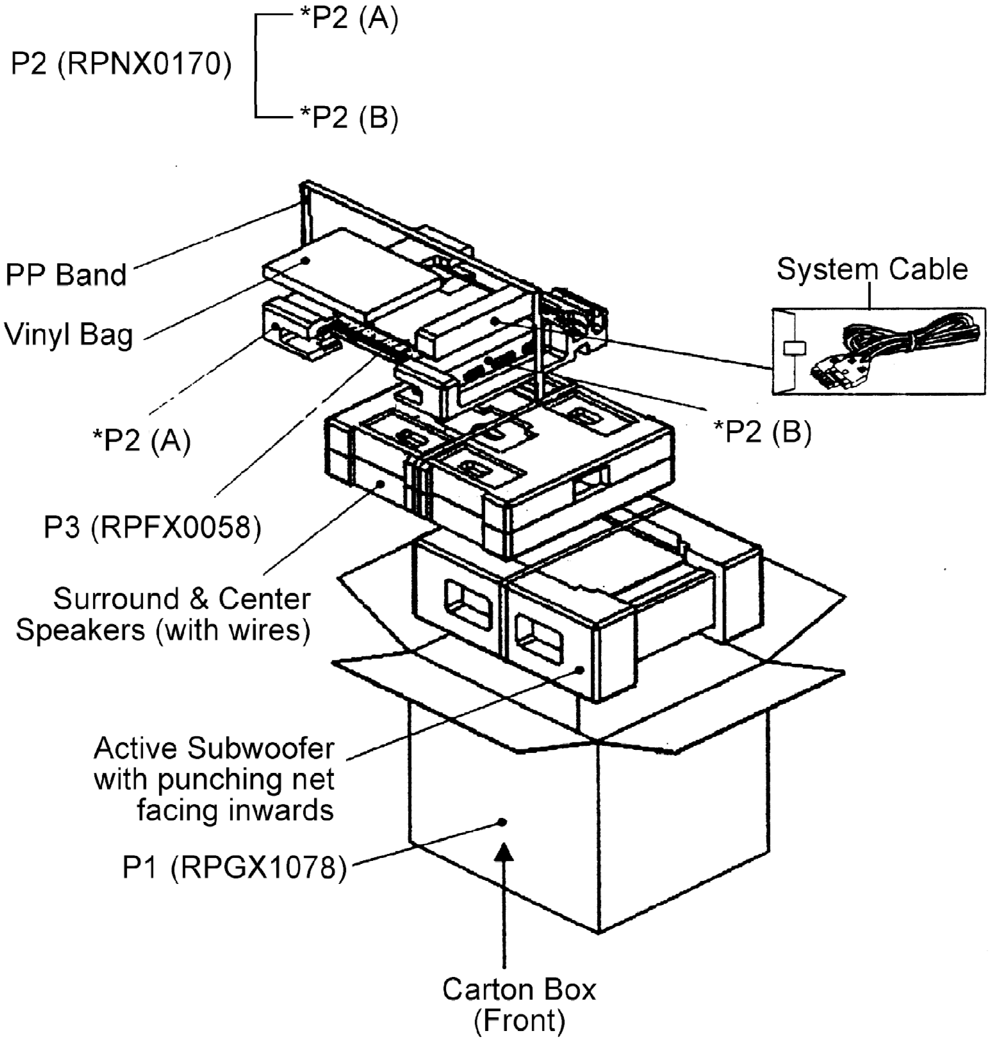
Ref. No.	Part No.	Part Name & Description	Remarks
C3033	ECUVNC104ZFV	0.1 16V	[M]
C3041	ECJ1VC1H220J	22P 50V	[M]
C3051	ECUVNC104ZFV	0.1 16V	[M]
C3052	ECUVNC104ZFV	0.1 16V	[M]
C3053	ECUVNC104ZFV	0.1 16V	[M]
C3054	ECUVNC104ZFV	0.1 16V	[M]
C3055	ECUVNC104ZFV	0.1 16V	[M]
C3061	ECUVNC104ZFV	0.1 16V	[M]
C3062	ECUVNC104ZFV	0.1 16V	[M]
C3063	ECUVNC104ZFV	0.1 16V	[M]
C3064	ECUVNC104ZFV	0.1 16V	[M]
C3065	ECUVNC104ZFV	0.1 16V	[M]
C3101	F2G0J331A015	330P 6.3V	[M]
C3102	ECUVNC104ZFV	0.1 16V	[M]
C3103	ECUVNC104ZFV	0.1 16V	[M]
C3104	ECUVNC104ZFV	0.1 16V	[M]
C3105	F1H0J1050013	1 6.3V	[M]
C3106	F1H0J1050013	1 6.3V	[M]
C3107	ECUVNC104ZFV	0.1 16V	[M]
C4201	F2G0J331A015	330P 6.3V	[M]
C4208	ECUVNC104ZFV	0.1 16V	[M]
C4209	ECUVNC104ZFV	0.1 16V	[M]
C4210	ECUVNC104ZFV	0.1 16V	[M]
C4211	F3F1A106A001	10 10V	[M]
C4213	F3F1A106A001	10 10V	[M]
C4215	ECUVNC104ZFV	0.1 16V	[M]
C4216	F2G0J101A015	100P 6.3V	[M]
C4217	ECUVNC104ZFV	0.1 16V	[M]
C4219	F3F1A106A001	10 10V	[M]
C4220	F3F1A106A001	10 10V	[M]
C4222	F2G0J331A015	330P 6.3V	[M]
C5101	ECJ1VF1C104Z	0.1 16V	[M]
C5102	ECJ1VF1C104Z	0.1 16V	[M]
C5103	F3F1A106A001	10 10V	[M]
C5110	ECEV0JA470WR	47 6.3V	[M]
C5111	ECEV0JA470WR	47 6.3V	[M]
C5115	ECEV0JA470WR	47 6.3V	[M]
C5201	ECUVNC104ZFV	0.1 16V	[M]
C5202	ECUVNC104ZFV	0.1 16V	[M]
C5203	ECUVNC104ZFV	0.1 16V	[M]
C5221	EEE0JA330WR	33P 6.3V	[M]
C5222	ECUVNC104ZFV	0.1 16V	[M]
C5223	EEE1EA4R7SR	4.7P 25V	[M]
C5225	ECUVNC104ZFV	0.1 16V	[M]
C5226	EEE1EA4R7SR	4.7P 25V	[M]
C5231	ECUV1C104KBV	0.1 16V	[M]
C5232	ECUV1C104KBV	0.1 16V	[M]
C6201	ECUVNC104ZFV	0.1 16V	[M]
C6202	ECJ1VC1H101J	100P 50V	[M]
C6251	ECUV1C104KBV	0.1 16V	[M]
C6252	F1H0J1050013	1 6.3V	[M]
C6253	ECJ1VB1C103K	0.01 16V	[M]
C6255	EEE0JA101SP	100P 6.3V	[M]
C6261	ECUVNC104ZFV	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C6262	ECUVNC104ZFV	0.1 16V	[M]
C6301	ECUVNC104ZFV	0.1 16V	[M]
C6302	ECUVNC104ZFV	0.1 16V	[M]
C6311	ECUVNC104ZFV	0.1 16V	[M]
C6312	ECUVNC104ZFV	0.1 16V	[M]
C6351	ECUVNC104ZFV	0.1 16V	[M]
C6561	EEE0JA330WR	33P 6.3V	[M]
C6562	EEE0JA330WR	33P 6.3V	[M]
C6563	ECUVNC104ZFV	0.1 16V	[M]
C6564	ECUVNC104ZFV	0.1 16V	[M]
C6565	ECJ1VC1H150J	15P 50V	[M]
C6566	ECJ1VC1H150J	15P 50V	[M]
C6567	ECUVNC104ZFV	0.1 16V	[M]
C6568	ECJ1VC1H150J	15P 50V	[M]

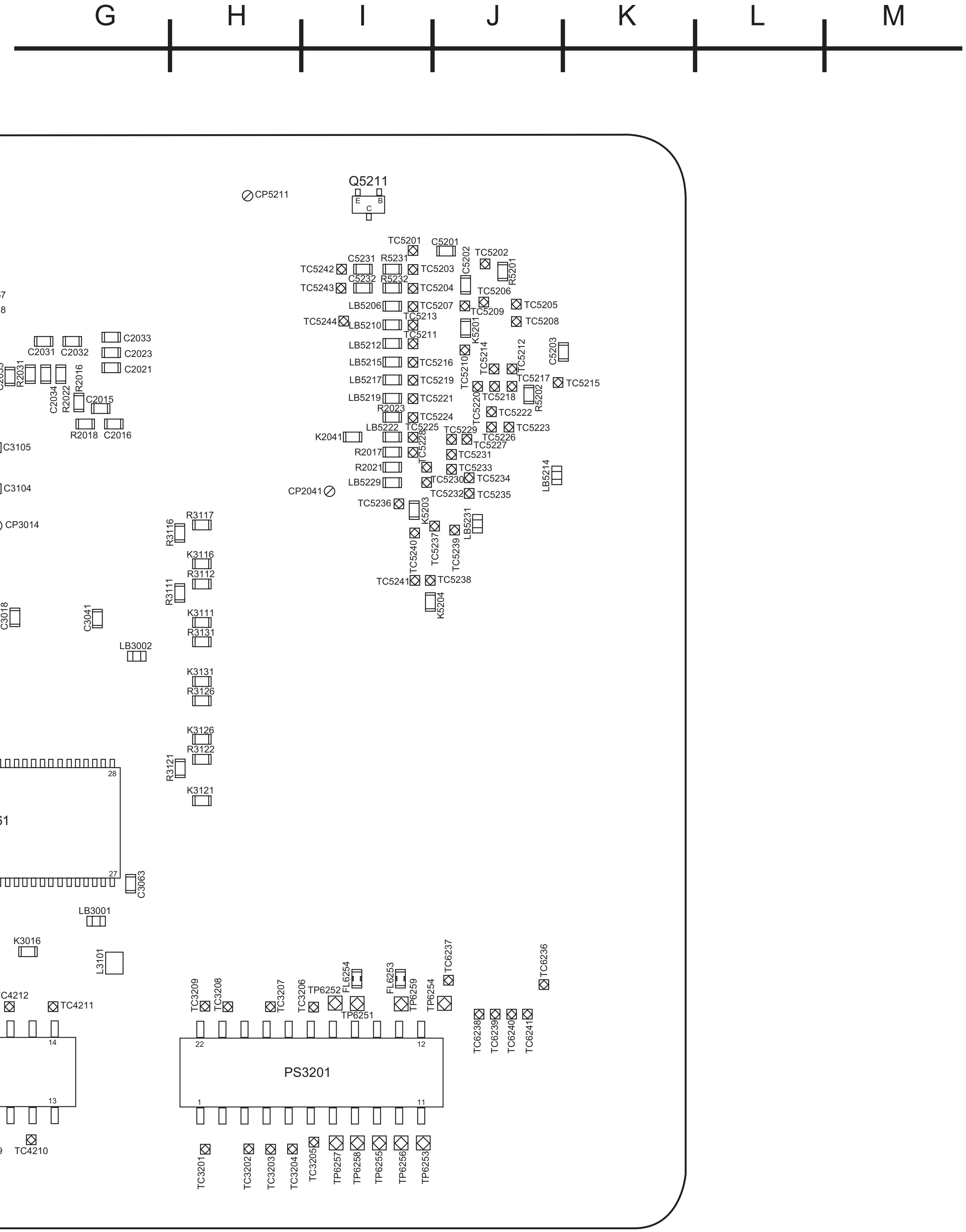
23.3. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPGX1078	PACKING CASE	[M]
P2	RPNX0170	POLYFOAM	[M]
P3	RPFX0058	MIRAMAT SHEET	[M]
		ACCESSORIES	
A1	EUR7623X90	REMOTE CONTROL	[M]
A1-1	UR76EC2303B	R/C BATTERY COVER	[M]
A2	RJA0019-2X	AC CORD	[M] ⚠
A3	RQT6756-B	O/I BOOK (En)	[M]
A3	RQT6758-R	O/I BOOK (Ru)	[M]
A4	RSA0007-J	FM ANTENNA	[M]
A5	RJL1P016B15A	VIDEO CABLE	[M]
A6	K1HA25HA0001	SYSTEM CABLE	[M]
A7	N1DADYY00002	AM LOOP ANTENNA	[M]

23.4. Packaging


P2 (RPNX0170)
*P2 (A)
*P2 (B)
PP Band
Vinyl Bag
*P2 (A)
P3 (RPFX0058)
Surround & Center Speakers (with wires)
Active Subwoofer with punching net facing inwards
P1 (RPGX1078)
System Cable
*P2 (B)
Carton Box (Front)

PRT0306 D/K/J/N/L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LB5217
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TC5218
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TC5225
TC5223
K2041
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R2021
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CP2041
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TC5236
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LB5231
TC5240
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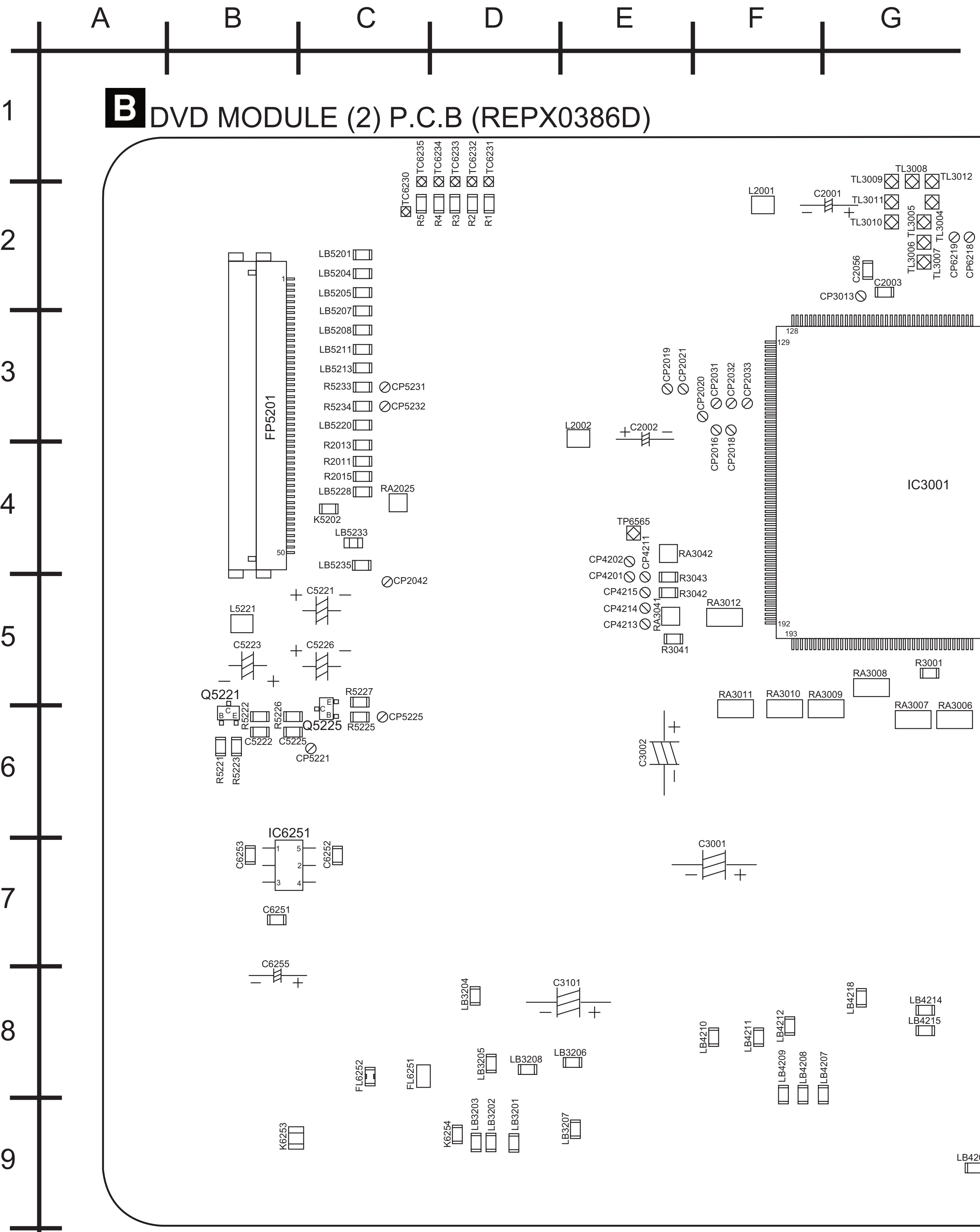
TP6253

B DVD MODULE (2) P.C.B (REPX0386D)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R1
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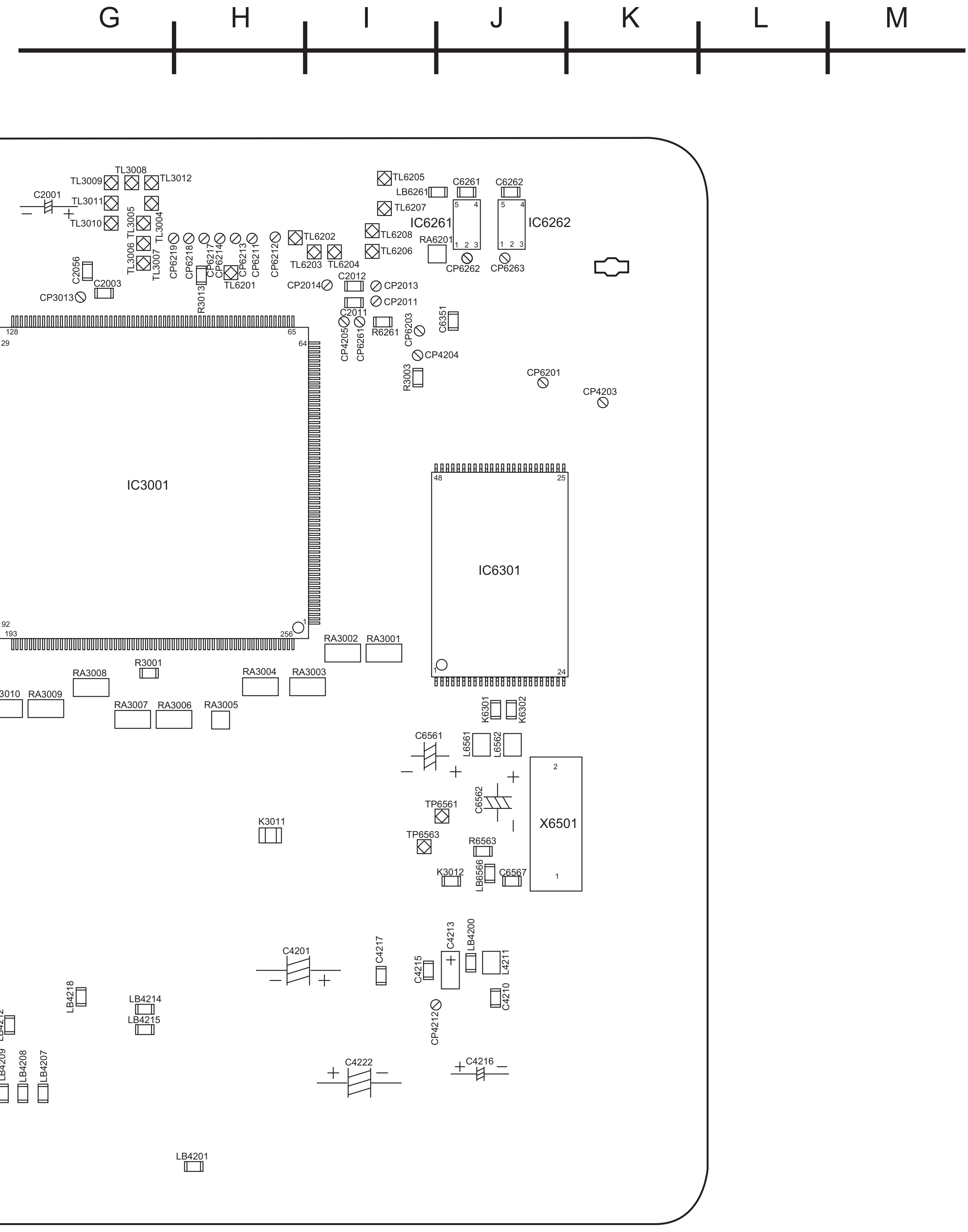
LB42

(SIDE B)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C4215
C4210
LB4218
LB4214
LB4215
CP4212
LB4212
LB4209
LB4208
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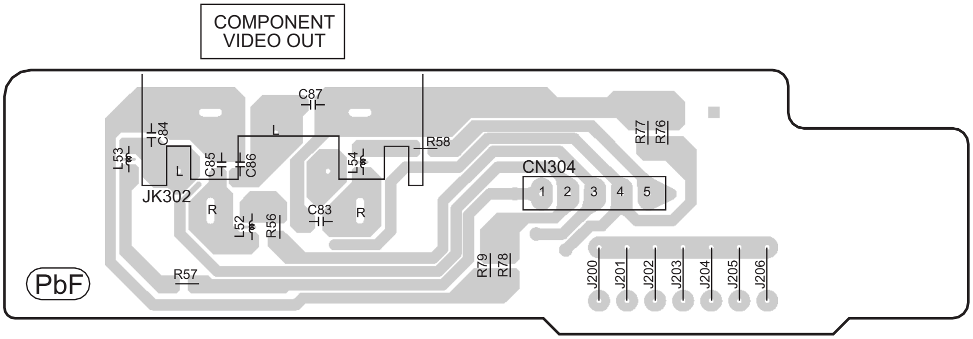
LB4201

A B C D E F G

1 2 3 4 5 6 7 8 9

E VIDEO OUT P.C.B (REPX0334H)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R58
R77
R76
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C85
C86
L54
CN304
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L
JK302
R
C83
R
L52
R56
R79
R78
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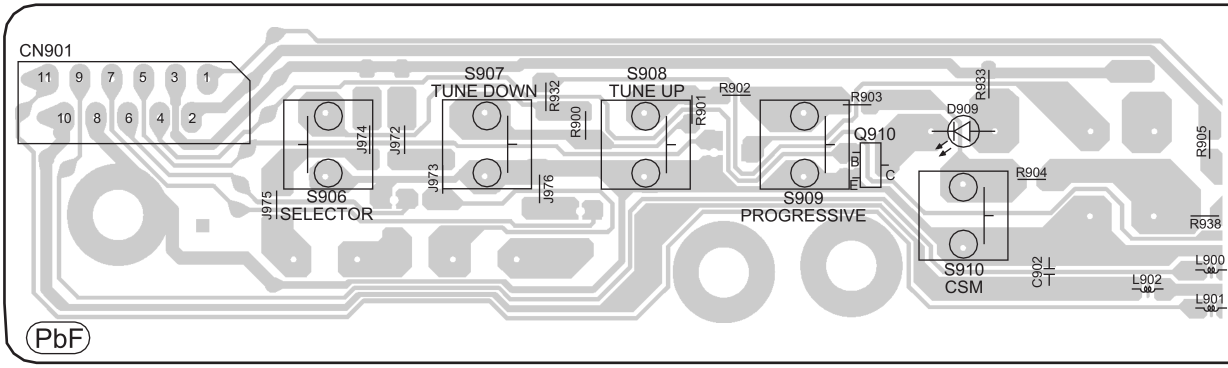
J206
R57
PbF

G HEADPHONE P.C.B (REPX0333C)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10 8 6 4 2
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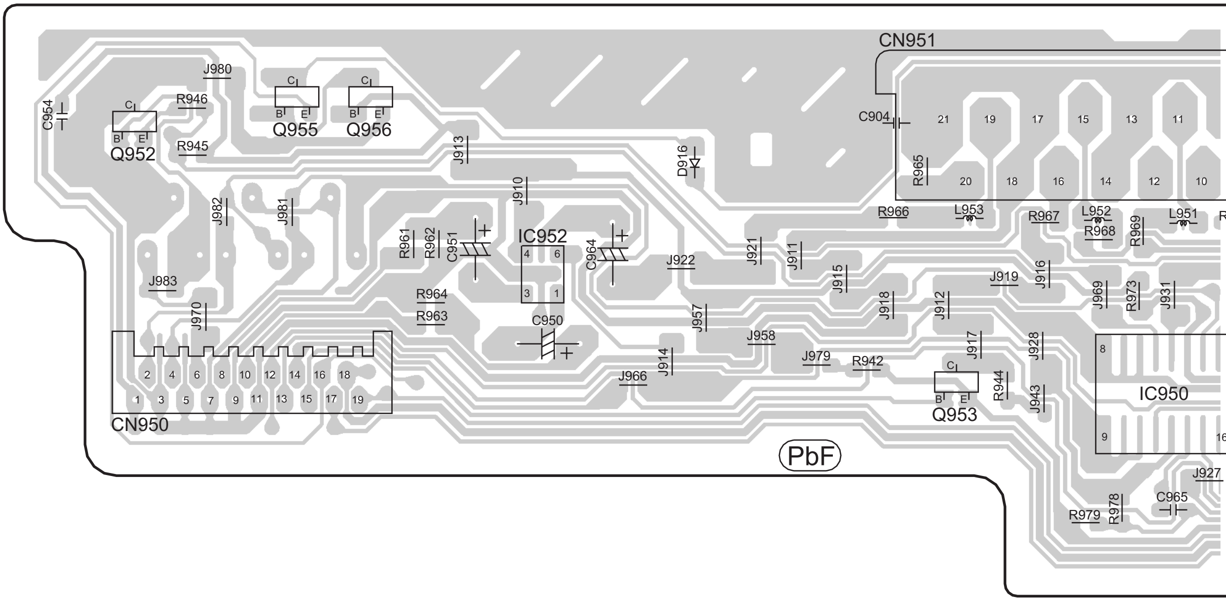
TUNE DOWN
R932
S908
TUNE UP
R902
R933
R903
D909
J974
J972
R900
R901
Q910
R905
B
E
C
J973
J976
R904
J975
S906
SELECTOR
S909
PROGRESSIVE
R938
S910
CSM
C902
L900
L902
L901
PbF

L SCART P.C.B (REPX0333C)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Q956
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R965
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J910
R966
L953
R967
L952
R968
R969
L951
J982
J981
R961
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J983
R964
R963
J915
J919
J916
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J969
R973
J931
J958
J917
J928
J914
J979
R942
J966
R944
Q953
J943
IC950
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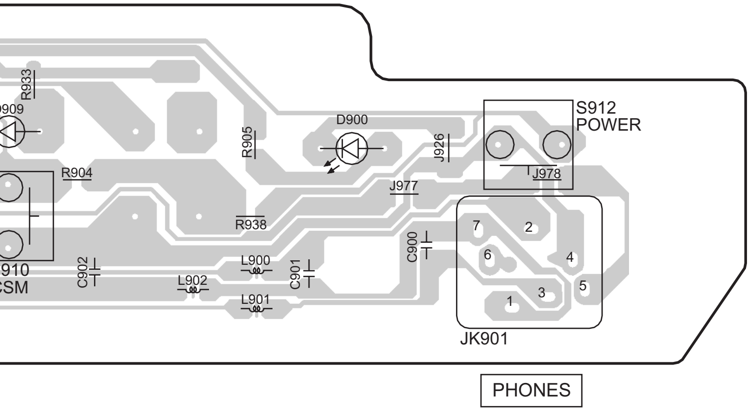
R978

G H I J K L M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R938
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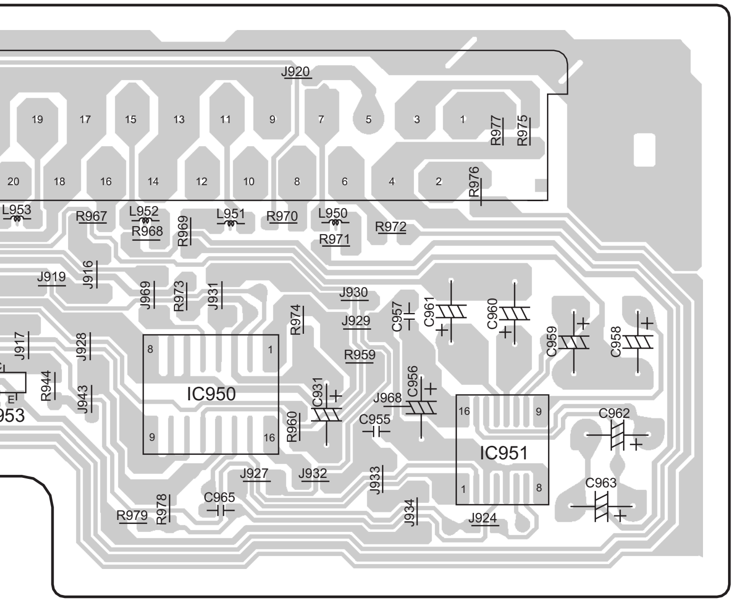
PHONES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J943
953
C931
J968
C956
C955
R960
16
9
IC951
1
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C962
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C965
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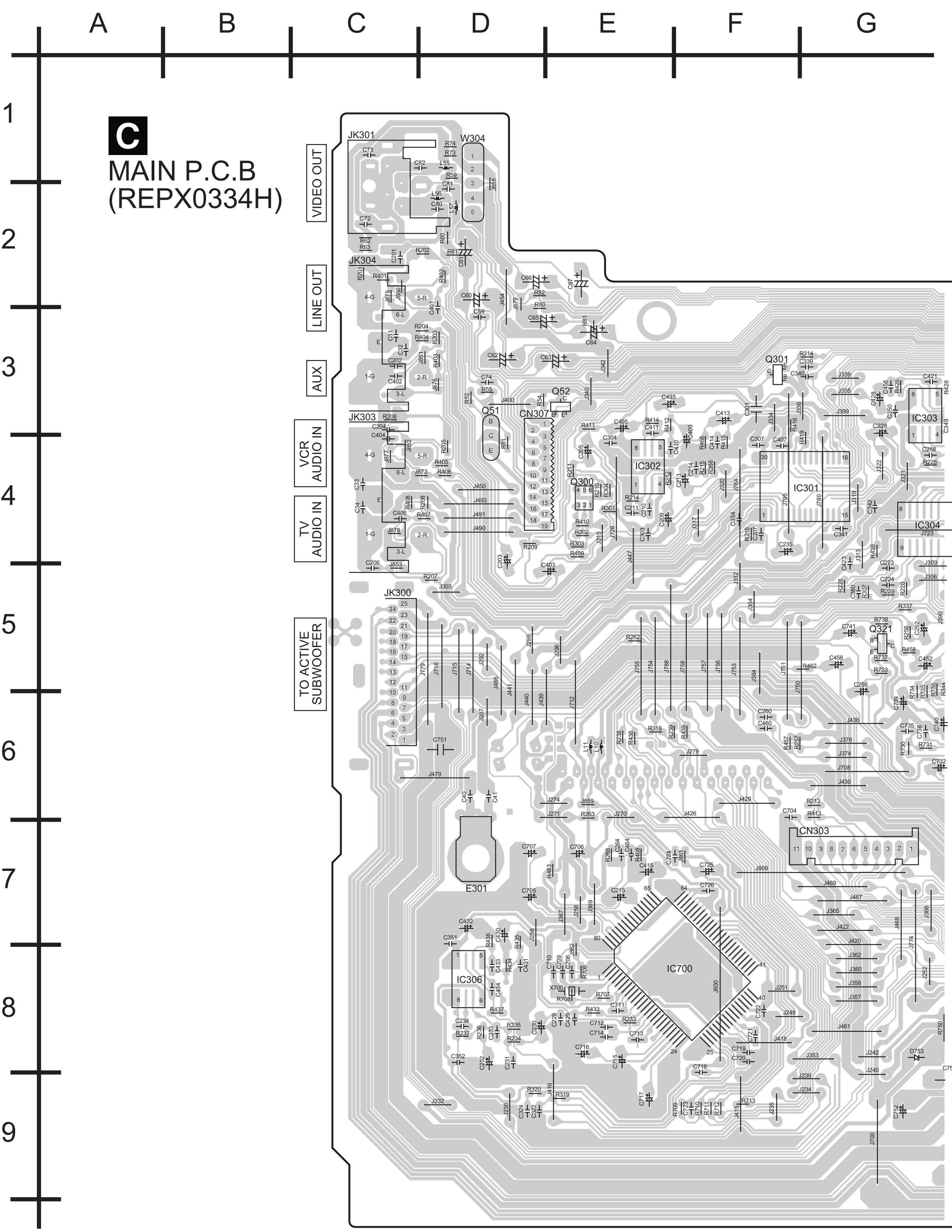
R978
J934
J924

C

MAIN P.C.B
(REPX0334H)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G
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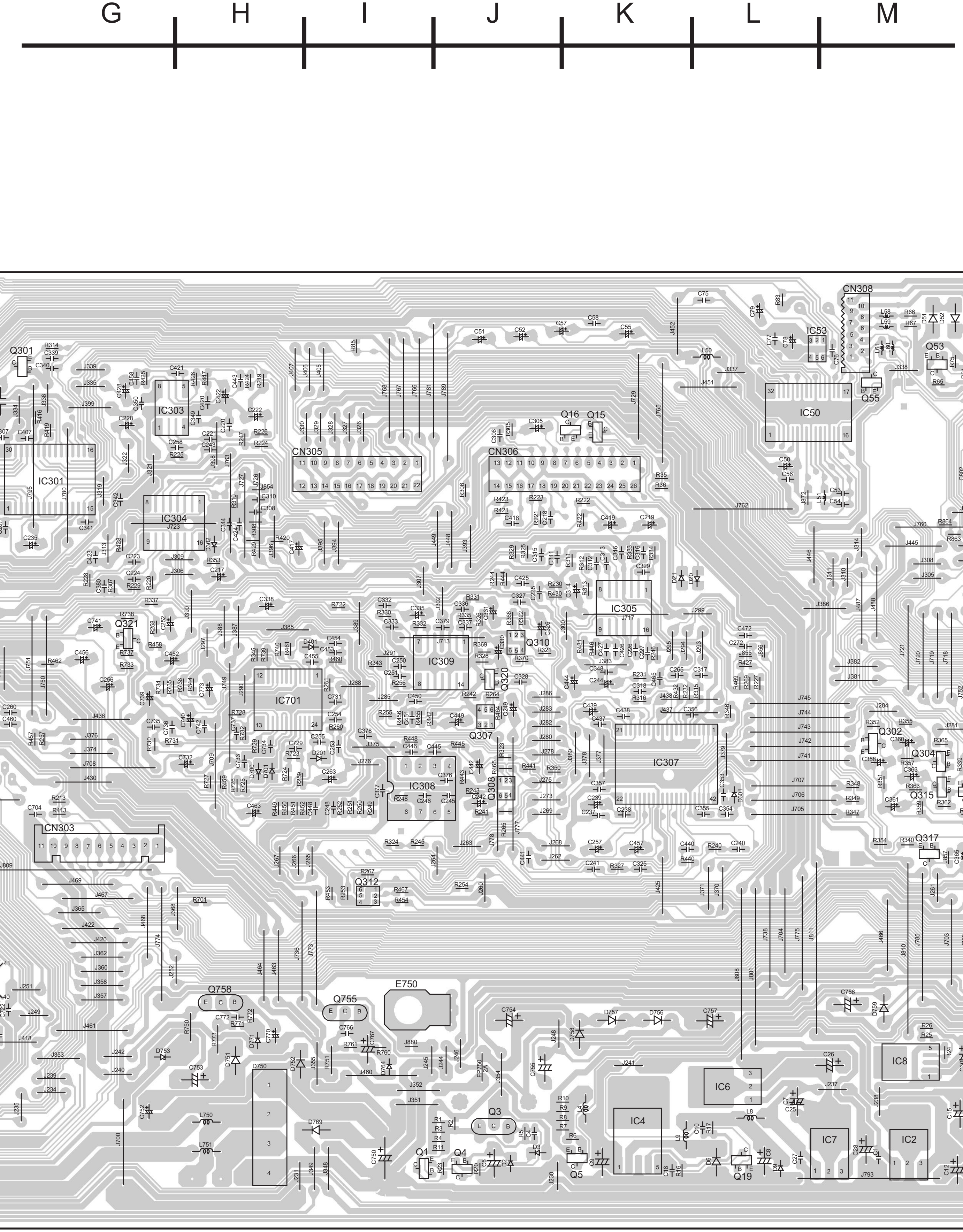
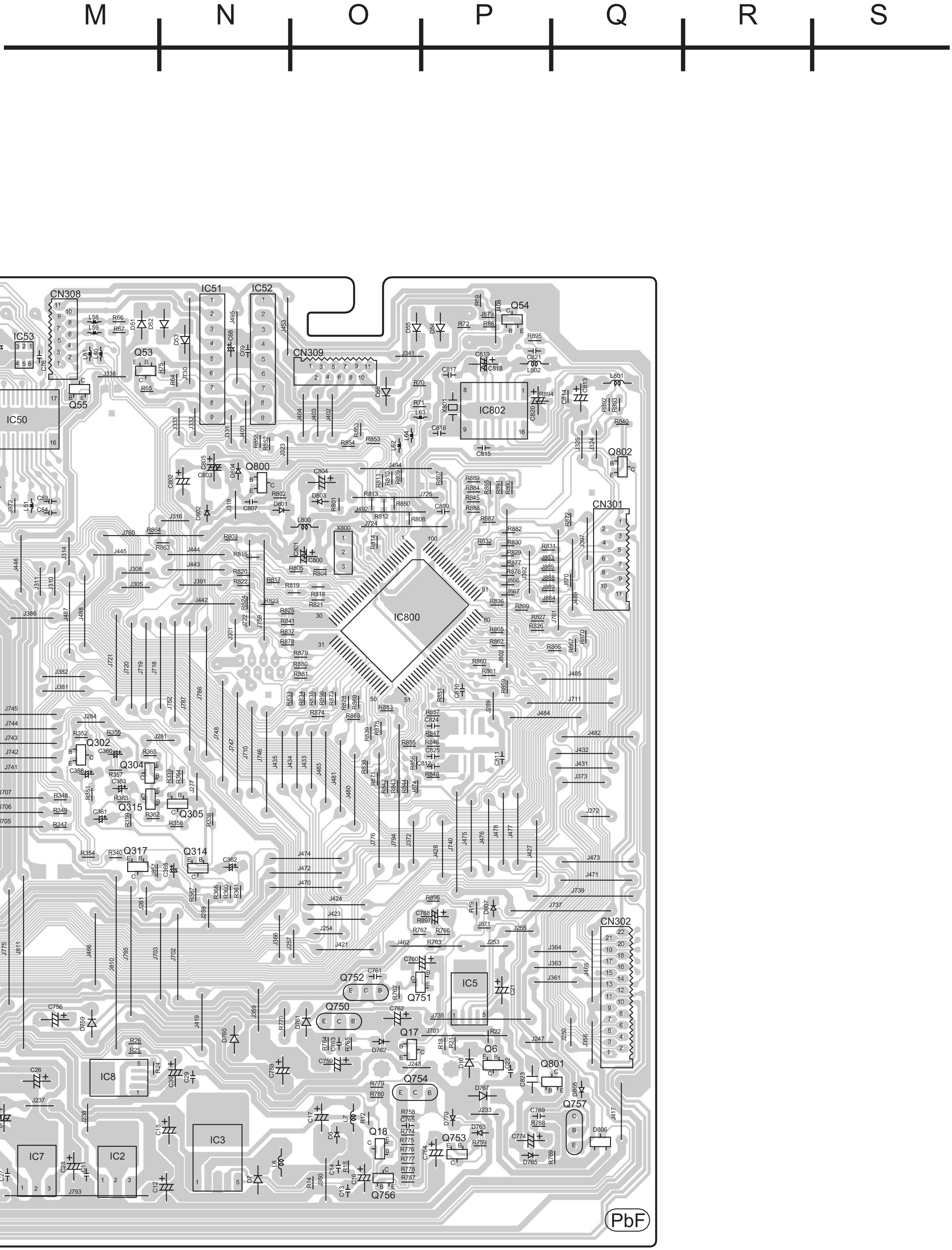
5
6
7
8
9
VIDEO OUT
LINE OUT
AUX
VCR AUDIO IN
TV AUDIO IN
TO ACTIVE SUBWOOFER
JK301
JK304
JK303
JK300
W304
CN307
CN303
Q51
Q52
Q300
Q301
Q321
IC301
IC302
IC303
IC304
IC306
IC700
E301
X700
D753
4-G
5-R
6-L
1-G
2-R
3-L
E

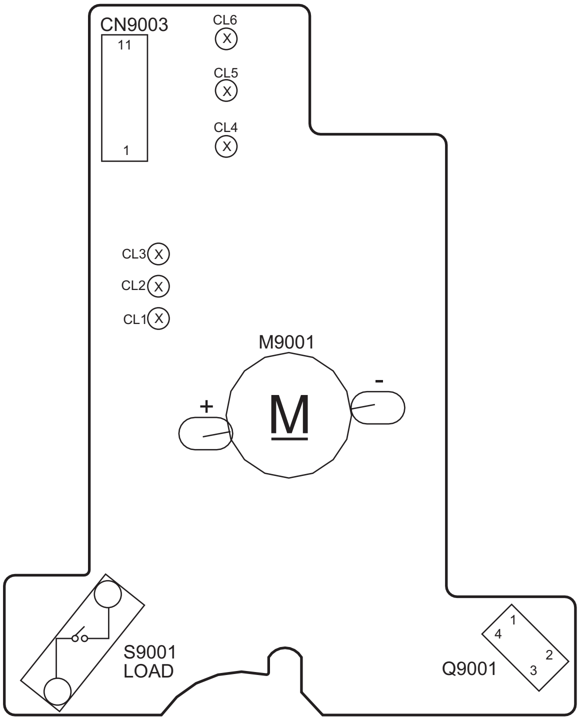

G
H
I
J
K
L
M
CN308
CN305
CN306
CN303
IC50
IC53
IC301
IC303
IC304
IC305
IC307
IC308
IC309
IC701
IC4
IC6
IC7
IC2
IC8
Q301
Q321
Q16
Q15
Q53
Q55
Q310
Q320
Q307
Q308
Q312
Q302
Q304
Q315
Q317
Q758
Q755
Q3
Q1
Q4
Q5
Q19
E750
D750
L50
L750
L751
L8
FP750
2A


M
N
O
P
Q
R
S
CN308
IC53
IC51
IC52
Q53
Q55
IC50
CN309
Q54
IC802
X801
L801
L802
L63
Q802
Q800
C804
C805
C803
C802
D802
D803
D801
D804
L800
X800
C801
C800
IC800
CN301
Q302
Q304
Q315
Q305
Q317
Q314
J745
J744
J743
J742
J741
J707
J706
J705
J760
J445
J444
J443
J308
J305
J391
J442
J386
J382
J381
J724
J725
J494
J492
J484
J482
J432
J431
J373
J485
J711
J272
J473
J471
J739
J737
J474
J472
J470
J424
J423
J421
J254
J462
J253
J255
J364
J363
J361
J735
J701
J247
J243
J233
J237
J793
CN302
IC5
Q752
Q751
Q750
Q17
Q6
Q801
Q754
Q757
Q18
Q753
Q756
IC8
IC3
IC7
IC2
D759
D760
D761
D762
D763
D765
D767
D770
D805
D806
D807
D10
D7
D8
C756
C758
C759
C760
C761
C762
C768
C774
C769
C823
C21
C22
C26
C29
C30
C7
C25
C27
C28
C11
C12
C15
C17
C14
C13
C16
L6
L7
R24
R25
R26
R770
R779
R780
R758
R765
R774
R775
R776
R777
R778
R757
R759
R768
R769
R896
R897
R767
R766
R763
R762
R19
R18
R21
R22
R12
R14
R15
J350
PbF

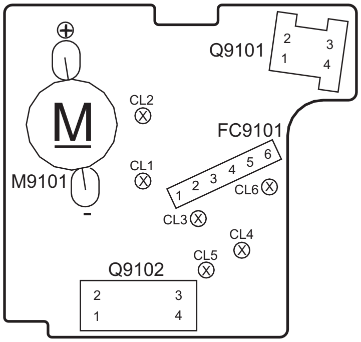
A B C D E F G

1 2 3 4 5 6 7 8 9

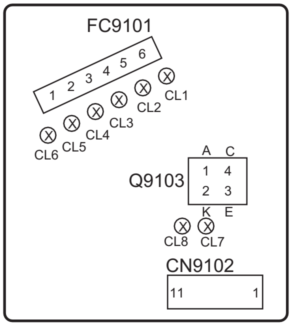
I LOADING MOTOR P.C.B (REP3465A)


CN9003
11
1
CL6
CL5
CL4
CL3
CL2
CL1
M9001
M
+
-
S9001
LOAD
Q9001
1
4
2
3

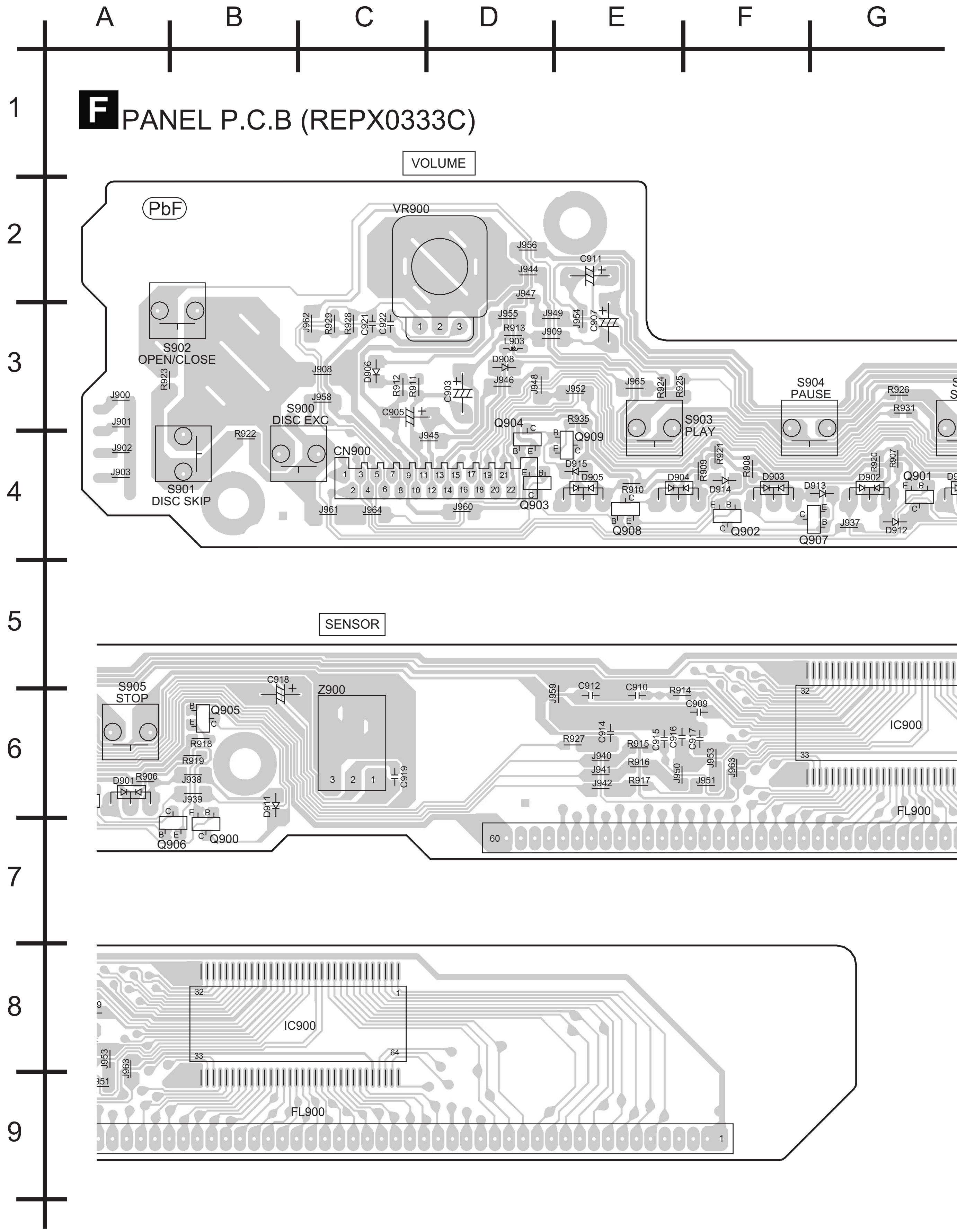
H TRAY MOTOR P..C.B (REP3466A)


⊕
M
M9101
-
CL2
CL1
Q9101
2
3
1
4
FC9101
1 2 3 4 5 6
CL6
CL3
CL4
CL5
Q9102
2
3
1
4

J SENSOR P.C.B (REP3466A)


FC9101
1 2 3 4 5 6
CL1
CL2
CL3
CL4
CL5
CL6
Q9103
A C
1 4
2 3
K E
CL8
CL7
CN9102
11
1

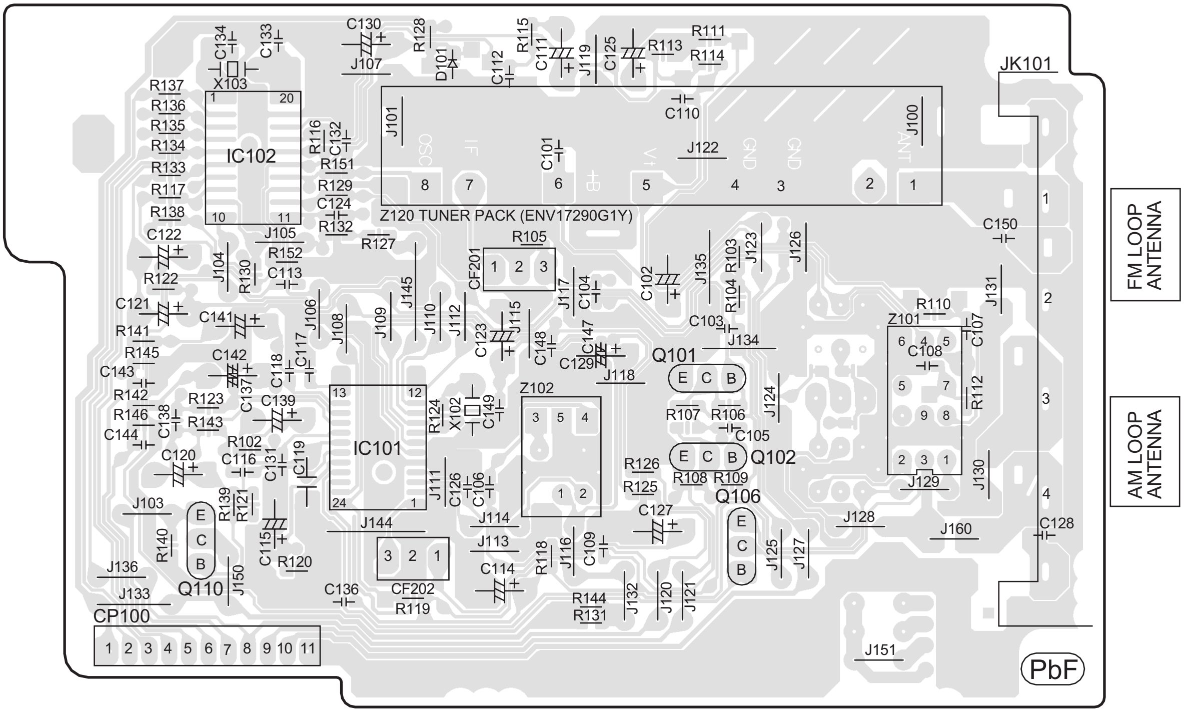
F PANEL P.C.B (REPX0333C)


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
VOLUME
PbF
VR900
1
2
3
J956
J944
J947
C911
J955
J949
J954
C907
R913
J909
L903
J962
R929
R928
C921
C922
S902
OPEN/CLOSE
J908
D906
D908
J946
J948
J952
J965
R924
R925
S904
PAUSE
R926
R931
R923
J900
J958
R912
R911
C903
C905
S900
DISC EXC
J901
J902
J903
R922
J945
Q904
R935
Q909
S903
PLAY
CN900
D915
D905
R909
R921
R908
R920
R907
S901
DISC SKIP
D904
D914
D903
D913
D902
Q901
R910
Q903
J961
J964
J960
Q908
Q902
Q907
J937
D912
SENSOR
S905
STOP
C918
Z900
Q905
J959
C912
C910
R914
C909
IC900
32
33
R918
R919
J938
J939
D901
R906
D911
C919
R927
C914
R915
C915
C916
C917
J940
J941
J942
R916
R917
J950
J953
J963
J951
Q906
Q900
FL900
60
IC900
32
1
33
64
J953
J963
FL900
1

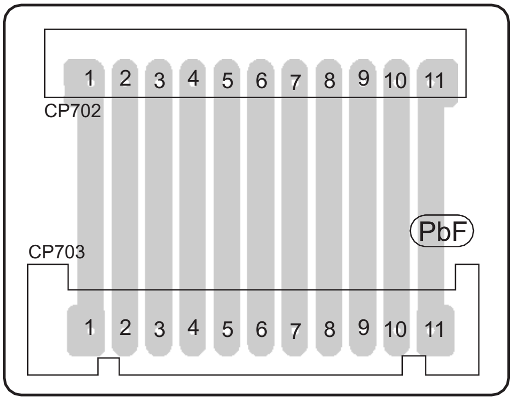
A B C D E F G

1 2 3 4 5 6 7 8 9

K TUNER P.C.B (REPX0373B)


C134
C133
X103
C130
J107
R128
D101
C112
R115
C111
J119
C125
R113
R111
R114
JK101
R137
R136
R135
R134
R133
R117
R138
IC102
1
20
10
11
R116
C132
R151
R129
C124
R132
J105
R152
C113
R127
J101
OSC
IF
C101
+B
Vt
J122
GND
GND
ANT
J100
C110
8
7
6
5
4
3
2
1
Z120 TUNER PACK (ENV17290G1Y)
C122
R122
J104
R130
R105
CF201
1 2 3
C102
J135
R103
R104
J123
J126
C150
FM LOOP ANTENNA
AM LOOP ANTENNA
C121
C141
R141
R145
C143
R142
R146
C144
C142
C137
C118
C117
J106
J108
J109
J145
J110
J112
J115
C123
C148
J117
C104
C147
C129
C103
J134
Q101
E C B
J118
R110
Z101
C107
C108
J131
6 4 5
5 7
9 8
2 3 1
R112
J129
J130
C138
R123
R143
C139
R102
C116
C131
C119
IC101
13
12
24
1
R124
X102
C149
Z102
3 5 4
1 2
R107
R106
C105
J124
R126
R125
R108
R109
Q102
Q106
C120
J103
R139
R121
R140
E C B
Q110
J111
C126
C106
J114
J144
C115
R120
J150
J113
C127
J128
J160
C128
J136
J133
CP100
1 2 3 4 5 6 7 8 9 10 11
C136
3 2 1
CF202
R119
C114
R118
J116
C109
R144
R131
J132
J120
J121
J125
J127
J151
PbF

D TUNER INTERFACE P.C.B (REPX0334H)

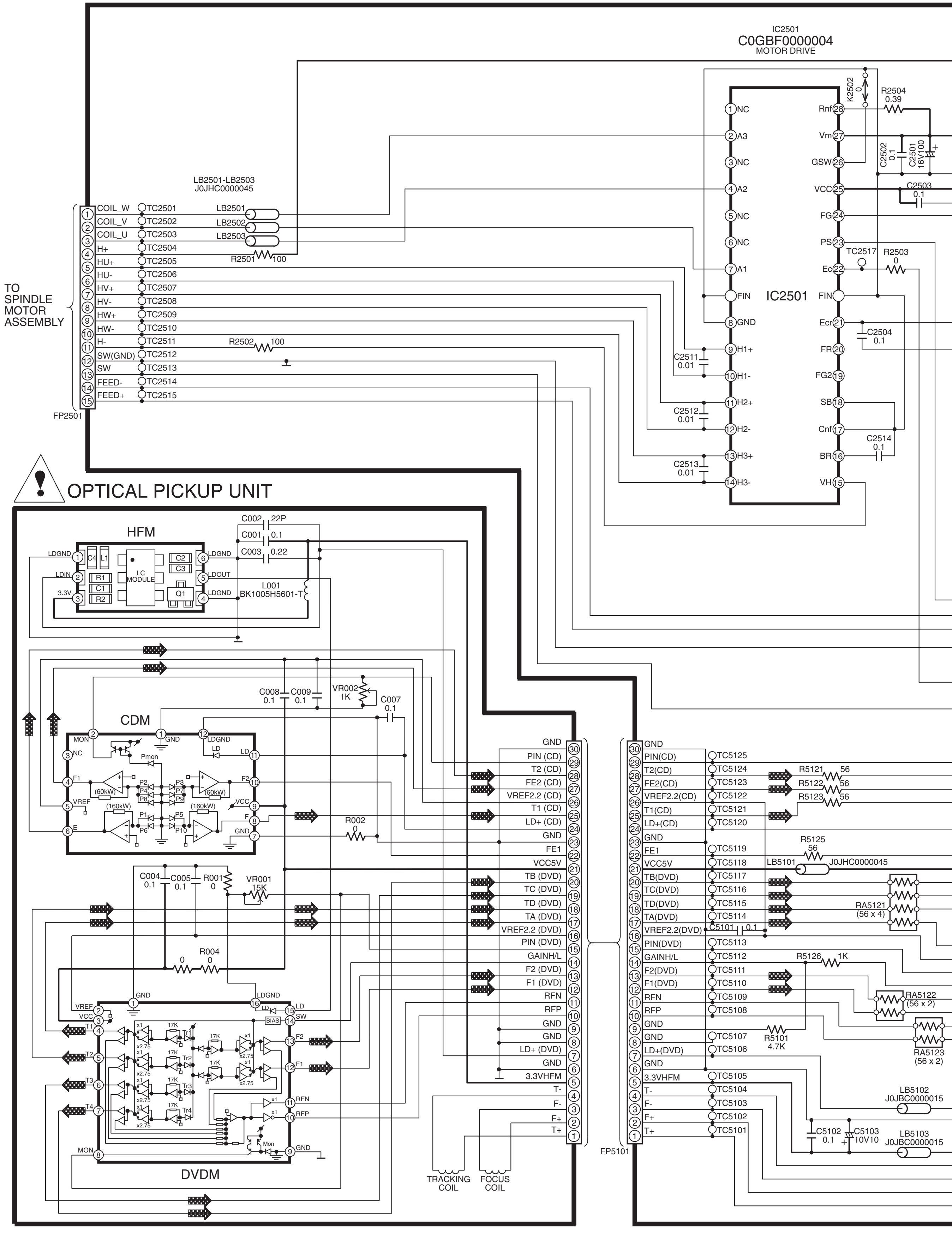

1 2 3 4 5 6 7 8 9 10 11
CP702
PbF
CP703
1 2 3 4 5 6 7 8 9 10 11

SCHEMATIC DIAGRAM - 1

A DVD MODULE 1 CIRCUIT

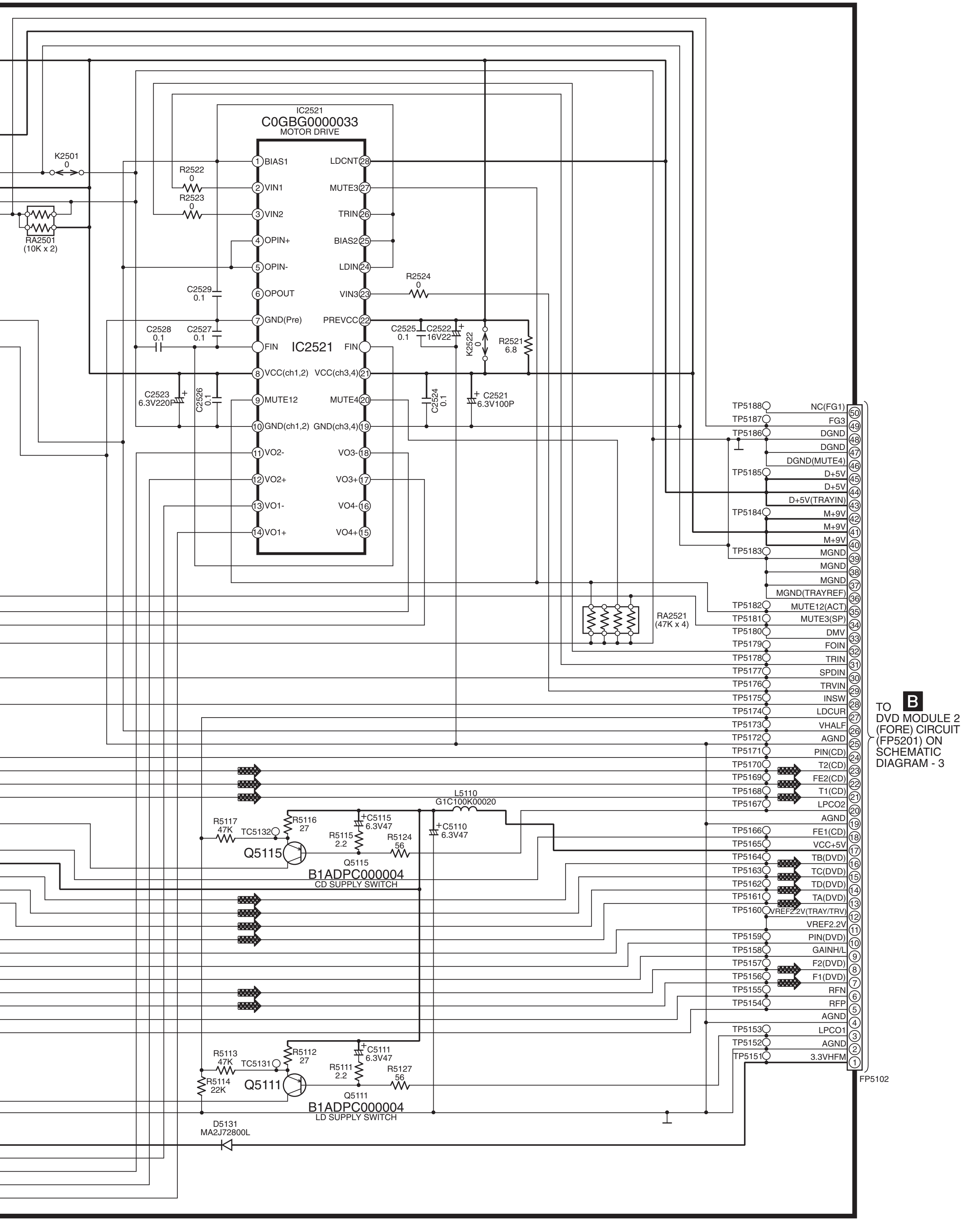
—— : +B SIGNAL LINE

▨ : CD-DA SIGNAL LINE


IC2501
C0GBF0000004
MOTOR DRIVE
IC2501
1 NC
2 A3
3 NC
4 A2
5 NC
6 NC
7 A1
FIN
8 GND
9 H1+
10 H1-
11 H2+
12 H2-
13 H3+
14 H3-
Rnf 28
Vm 27
GSW 26
VCC 25
FG 24
PS 23
Ec 22
FIN
Ecr 21
FR 20
FG2 19
SB 18
Cnf 17
BR 16
VH 15
K2502 0
R2504 0.39
C2502 0.1
C2501 16V100
C2503 0.1
TC2517
R2503 0
C2504 0.1
C2514 0.1
C2511 0.01
C2512 0.01
C2513 0.01
LB2501-LB2503
J0JHC0000045
LB2501
LB2502
LB2503
R2501 100
R2502 100
TO SPINDLE MOTOR ASSEMBLY
FP2501
1 COIL_W TC2501
2 COIL_V TC2502
3 COIL_U TC2503
4 H+ TC2504
5 HU+ TC2505
6 HU- TC2506
7 HV+ TC2507
8 HV- TC2508
9 HW+ TC2509
10 HW- TC2510
11 H- TC2511
12 SW(GND) TC2512
13 SW TC2513
14 FEED- TC2514
15 FEED+ TC2515
OPTICAL PICKUP UNIT
HFM
LDGND
LDIN
3.3V
C4
L1
R1
C1
R2
LC MODULE
C2
C3
Q1
LDGND
LDOUT
LDGND
C002 22P
C001 0.1
C003 0.22
L001
BK1005H5601-T
CDM
MON
NC
F1
VREF
E
GND
LDGND
LD
Pmon
(60kW)
(160kW)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
LD
F2
VCC
F
GND
C008 0.1
C009 0.1
VR002 1K
C007 0.1
R002 0
C004 0.1
C005 0.1
R001 0
VR001 15K
R004 0
0
DVDM
VREF
VCC
T1
T2
T3
T4
MON
GND
LDGND
LD
BIAS
SW
F2
F1
RFN
RFP
GND
Tr1
Tr2
Tr3
Tr4
17K
x1
x2.75
Mon
TRACKING COIL
FOCUS COIL
30 GND
29 PIN (CD)
28 T2 (CD)
27 FE2 (CD)
26 VREF2.2 (CD)
25 T1 (CD)
24 LD+ (CD)
23 GND
22 FE1
21 VCC5V
20 TB (DVD)
19 TC (DVD)
18 TD (DVD)
17 TA (DVD)
16 VREF2.2 (DVD)
15 PIN (DVD)
14 GAINH/L
13 F2 (DVD)
12 F1 (DVD)
11 RFN
10 RFP
9 GND
8 GND
7 LD+ (DVD)
6 GND
5 3.3VHFM
4 T-
3 F-
2 F+
1 T+
FP5101
30 GND
29 PIN(CD) TC5125
28 T2(CD) TC5124
27 FE2(CD) TC5123
26 VREF2.2(CD) TC5122
25 T1(CD) TC5121
24 LD+(CD) TC5120
23 GND
22 FE1 TC5119
21 VCC5V TC5118
20 TB(DVD) TC5117
19 TC(DVD) TC5116
18 TD(DVD) TC5115
17 TA(DVD) TC5114
16 VREF2.2(DVD) C5101 0.1
15 PIN(DVD) TC5113
14 GAINH/L TC5112
13 F2(DVD) TC5111
12 F1(DVD) TC5110
11 RFN TC5109
10 RFP TC5108
9 GND
8 GND TC5107
7 LD+(DVD) TC5106
6 GND
5 3.3VHFM TC5105
4 T- TC5104
3 F- TC5103
2 F+ TC5102
1 T+ TC5101
R5121 56
R5122 56
R5123 56
R5125 56
LB5101
J0JHC0000045
RA5121 (56 x 4)
R5126 1K
RA5122 (56 x 2)
R5101 4.7K
RA5123 (56 x 2)
LB5102 J0JBC0000015
C5102 0.1
C5103 10V10
LB5103 J0JBC0000015

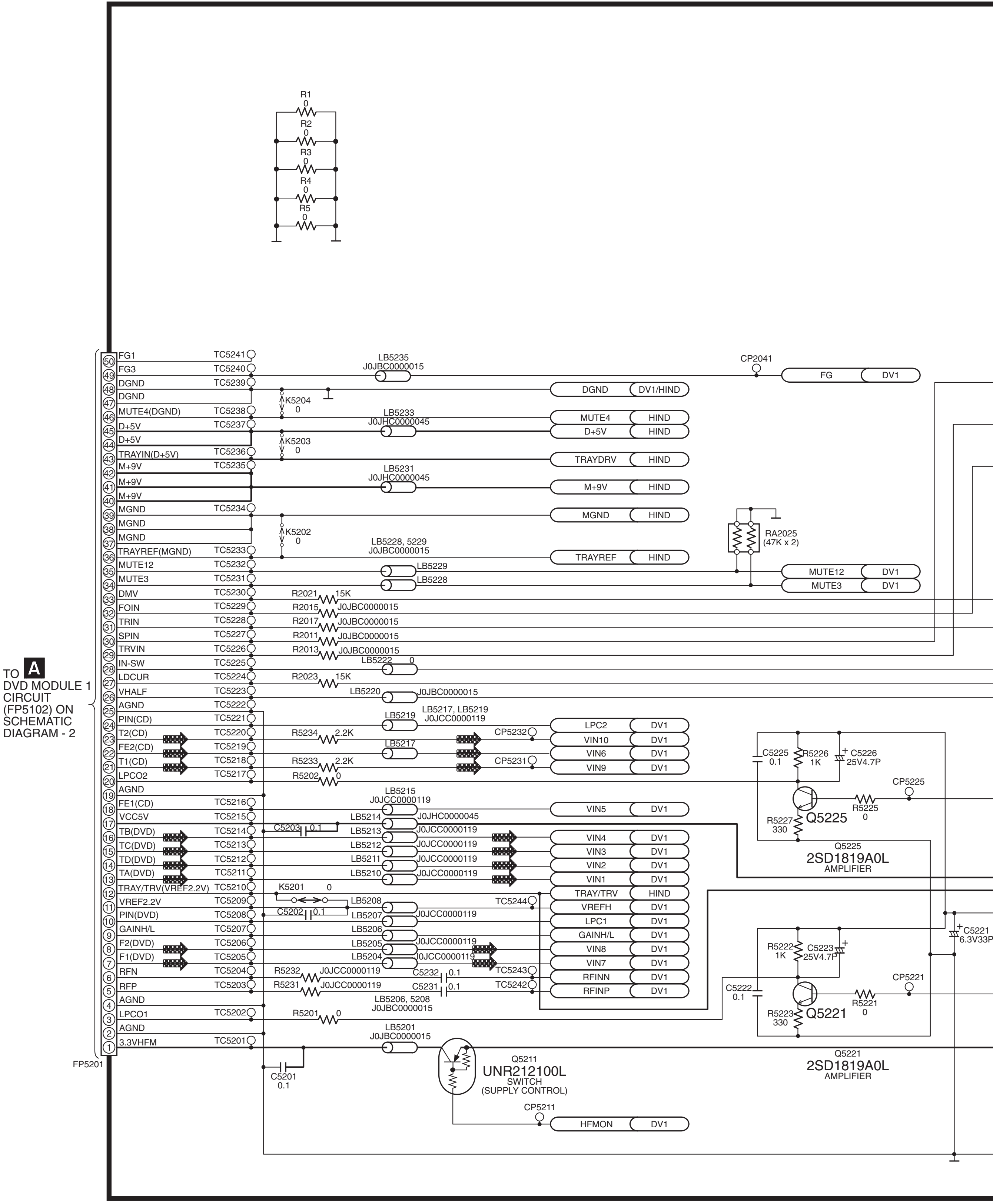
A DVD MODULE 1 CIRCUIT

——— : +B SIGNAL LINE ⇨ : CD-DA SIGNAL LINE


IC2521
C0GBG0000033
MOTOR DRIVE
IC2521
K2501
0
R2522
0
R2523
0
RA2501
(10K x 2)
1 BIAS1
2 VIN1
3 VIN2
4 OPIN+
5 OPIN-
6 OPOUT
7 GND(Pre)
FIN
8 VCC(ch1,2)
9 MUTE12
10 GND(ch1,2)
11 VO2-
12 VO2+
13 VO1-
14 VO1+
LDCNT 28
MUTE3 27
TRIN 26
BIAS2 25
LDIN 24
VIN3 23
PREVCC 22
FIN
VCC(ch3,4) 21
MUTE4 20
GND(ch3,4) 19
VO3- 18
VO3+ 17
VO4- 16
VO4+ 15
C2529
0.1
C2528
0.1
C2527
0.1
C2523
6.3V220P
C2526
0.1
R2524
0
C2525
0.1
C2522
16V22
K2522
0
R2521
6.8
C2524
0.1
C2521
6.3V100P
RA2521
(47K x 4)
TP5188 NC(FG1) 50
TP5187 FG3 49
TP5186 DGND 48
DGND 47
DGND(MUTE4) 46
TP5185 D+5V 45
D+5V 44
D+5V(TRAYIN) 43
TP5184 M+9V 42
M+9V 41
M+9V 40
TP5183 MGND 39
MGND 38
MGND 37
MGND(TRAYREF) 36
TP5182 MUTE12(ACT) 35
TP5181 MUTE3(SP) 34
TP5180 DMV 33
TP5179 FOIN 32
TP5178 TRIN 31
TP5177 SPDIN 30
TP5176 TRVIN 29
TP5175 INSW 28
TP5174 LDCUR 27
TP5173 VHALF 26
TP5172 AGND 25
TP5171 PIN(CD) 24
TP5170 T2(CD) 23
TP5169 FE2(CD) 22
TP5168 T1(CD) 21
TP5167 LPCO2 20
AGND 19
TP5166 FE1(CD) 18
TP5165 VCC+5V 17
TP5164 TB(DVD) 16
TP5163 TC(DVD) 15
TP5162 TD(DVD) 14
TP5161 TA(DVD) 13
TP5160 VREF2.2V(TRAY/TRV) 12
VREF2.2V 11
TP5159 PIN(DVD) 10
TP5158 GAINH/L 9
TP5157 F2(DVD) 8
TP5156 F1(DVD) 7
TP5155 RFN 6
TP5154 RFP 5
AGND 4
TP5153 LPCO1 3
TP5152 AGND 2
TP5151 3.3VHFM 1
FP5102
TO B
DVD MODULE 2
(FORE) CIRCUIT
(FP5201) ON
SCHEMATIC
DIAGRAM - 3
L5110
G1C100K00020
R5117
47K
TC5132
R5116
27
C5115
6.3V47
R5115
2.2
R5124
56
C5110
6.3V47
Q5115
Q5115
B1ADPC000004
CD SUPPLY SWITCH
R5113
47K
TC5131
R5112
27
C5111
6.3V47
R5111
2.2
R5127
56
R5114
22K
Q5111
Q5111
B1ADPC000004
LD SUPPLY SWITCH
D5131
MA2J72800L

B DVD MODULE 2 (FORE) CIRCUIT

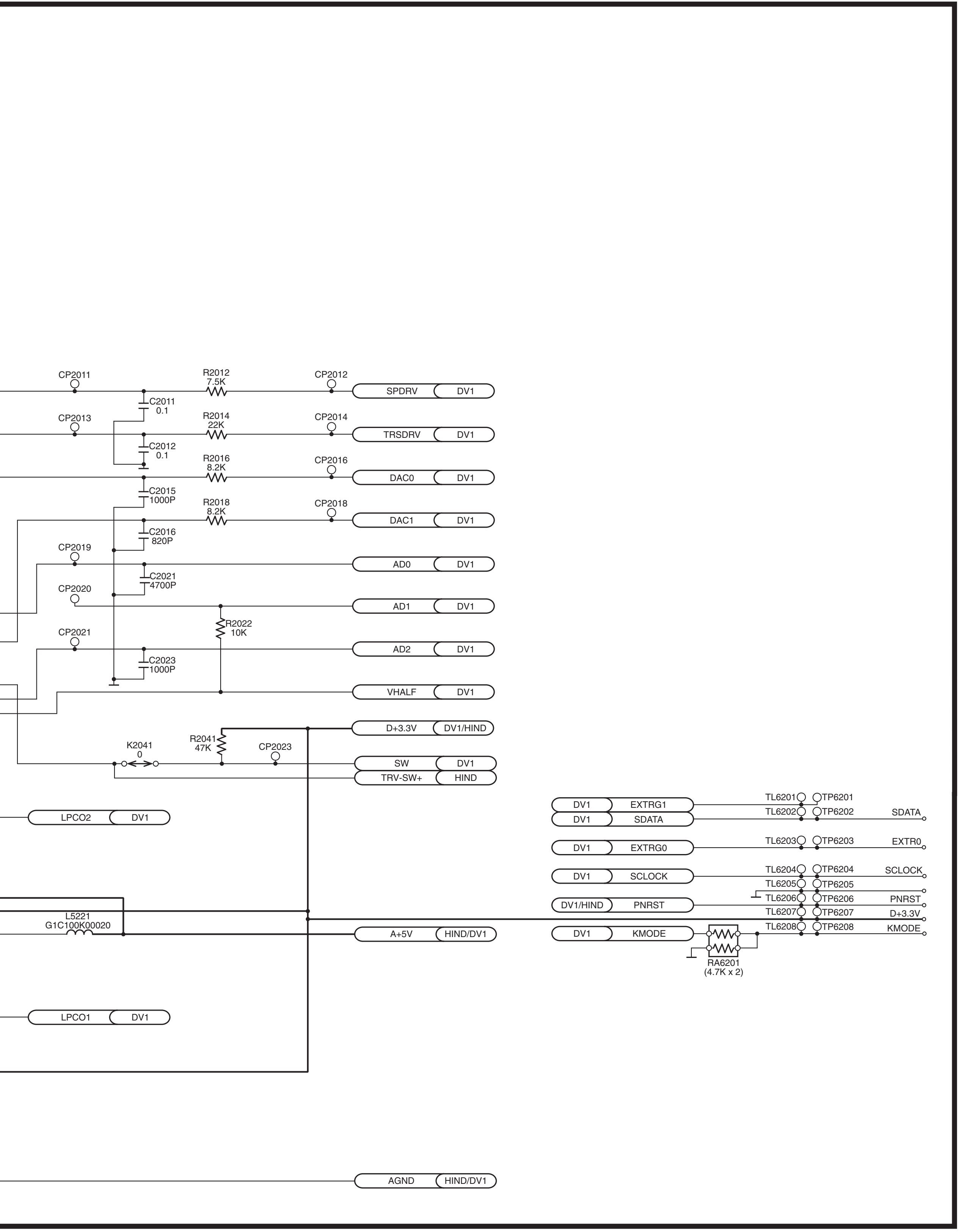
—— : +B SIGNAL LINE ➡ : CD-DA SIGNAL LINE


R1 0
R2 0
R3 0
R4 0
R5 0
TO A DVD MODULE 1 CIRCUIT (FP5102) ON SCHEMATIC DIAGRAM - 2
FP5201
50 FG1 TC5241
49 FG3 TC5240
48 DGND TC5239
47 DGND
46 MUTE4(DGND) TC5238
45 D+5V TC5237
44 D+5V
43 TRAYIN(D+5V) TC5236
42 M+9V TC5235
41 M+9V
40 M+9V
39 MGND TC5234
38 MGND
37 MGND
36 TRAYREF(MGND) TC5233
35 MUTE12 TC5232
34 MUTE3 TC5231
33 DMV TC5230
32 FOIN TC5229
31 TRIN TC5228
30 SPIN TC5227
29 TRVIN TC5226
28 IN-SW TC5225
27 LDCUR TC5224
26 VHALF TC5223
25 AGND TC5222
24 PIN(CD) TC5221
23 T2(CD) TC5220
22 FE2(CD) TC5219
21 T1(CD) TC5218
20 LPCO2 TC5217
19 AGND
18 FE1(CD) TC5216
17 VCC5V TC5215
16 TB(DVD) TC5214
15 TC(DVD) TC5213
14 TD(DVD) TC5212
13 TA(DVD) TC5211
12 TRAY/TRV(VREF2.2V) TC5210
11 VREF2.2V TC5209
10 PIN(DVD) TC5208
9 GAINH/L TC5207
8 F2(DVD) TC5206
7 F1(DVD) TC5205
6 RFN TC5204
5 RFP TC5203
4 AGND
3 LPCO1 TC5202
2 AGND
1 3.3VHFM TC5201
LB5235 J0JBC0000015
CP2041
FG DV1
K5204 0
DGND DV1/HIND
LB5233 J0JHC0000045
MUTE4 HIND
D+5V HIND
K5203 0
TRAYDRV HIND
LB5231 J0JHC0000045
M+9V HIND
MGND HIND
K5202 0
LB5228, 5229 J0JBC0000015
TRAYREF HIND
RA2025 (47K x 2)
LB5229
LB5228
MUTE12 DV1
MUTE3 DV1
R2021 15K
R2015 J0JBC0000015
R2017 J0JBC0000015
R2011 J0JBC0000015
R2013 J0JBC0000015
LB5222 0
R2023 15K
LB5220 J0JBC0000015
LB5219 LB5217, LB5219 J0JCC0000119
R5234 2.2K
LB5217
R5233 2.2K
R5202 0
CP5232
CP5231
LPC2 DV1
VIN10 DV1
VIN6 DV1
VIN9 DV1
C5225 0.1
R5226 1K
C5226 25V4.7P
CP5225
R5225 0
R5227 330
Q5225
Q5225 2SD1819A0L AMPLIFIER
LB5215 J0JCC0000119
LB5214 J0JHC0000045
VIN5 DV1
C5203 0.1
LB5213 J0JCC0000119
LB5212 J0JCC0000119
LB5211 J0JCC0000119
LB5210 J0JCC0000119
VIN4 DV1
VIN3 DV1
VIN2 DV1
VIN1 DV1
K5201 0
TRAY/TRV HIND
LB5208
TC5244
VREFH DV1
C5202 0.1
LB5207 J0JCC0000119
LPC1 DV1
LB5206
GAINH/L DV1
LB5205 J0JCC0000119
LB5204 J0JCC0000119
VIN8 DV1
VIN7 DV1
R5232 J0JCC0000119
C5232 0.1
TC5243
RFINN DV1
R5231 J0JCC0000119
C5231 0.1
TC5242
RFINP DV1
LB5206, 5208 J0JBC0000015
R5201 0
R5222 1K
C5223 25V4.7P
C5221 6.3V33P
C5222 0.1
CP5221
R5221 0
R5223 330
Q5221
Q5221 2SD1819A0L AMPLIFIER
LB5201 J0JBC0000015
C5201 0.1
Q5211 UNR212100L SWITCH (SUPPLY CONTROL)
CP5211
HFMON DV1

SCHEMATIC DIAGRAM - 4

B DVD MODULE 2 (FORE) CIRCUIT

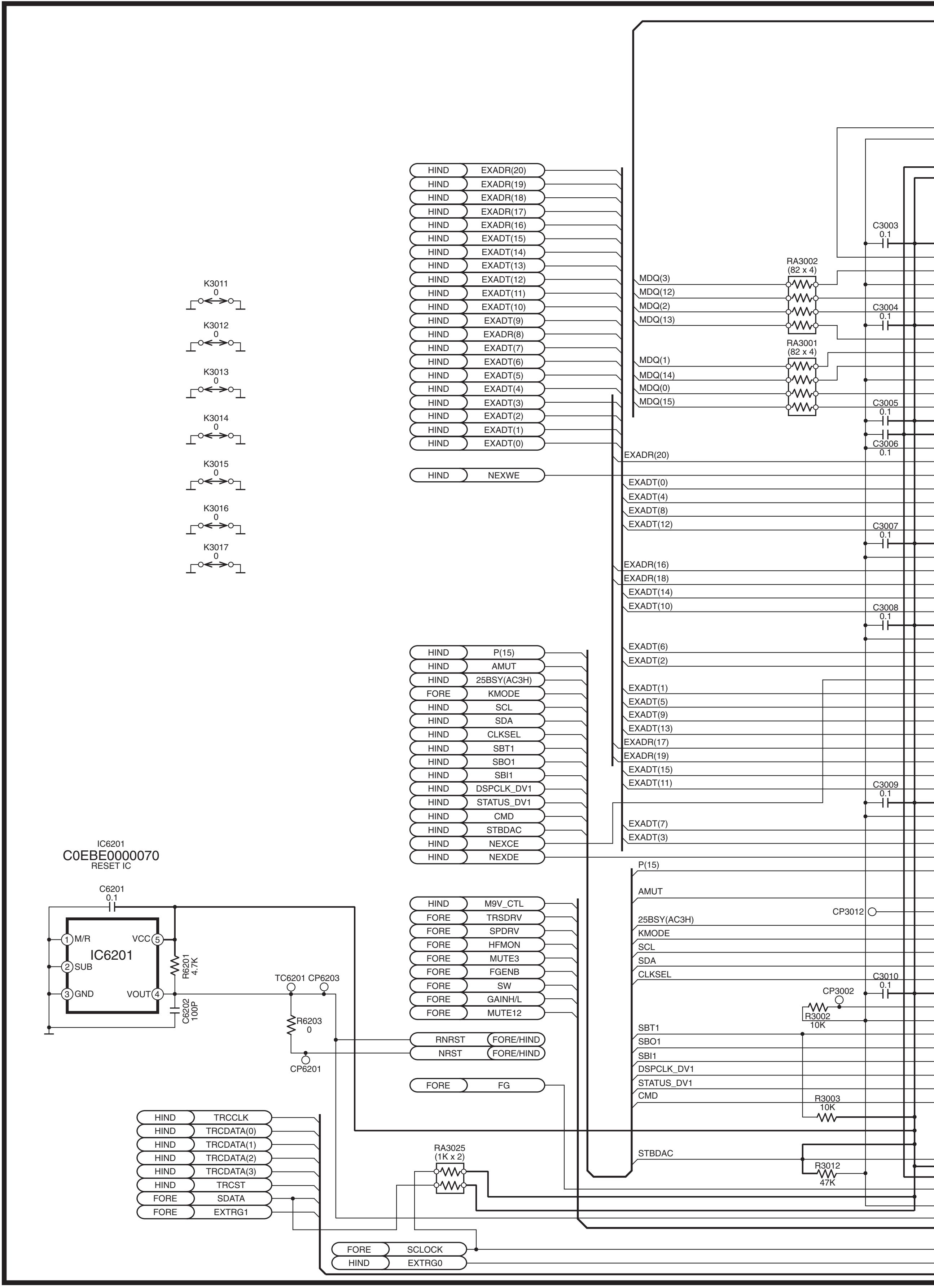
——— : +B SIGNAL LINE


CP2011
R2012
7.5K
CP2012
SPDRV
DV1
C2011
0.1
CP2013
R2014
22K
CP2014
TRSDRV
DV1
C2012
0.1
R2016
8.2K
CP2016
DAC0
DV1
C2015
1000P
R2018
8.2K
CP2018
DAC1
DV1
C2016
820P
CP2019
AD0
DV1
C2021
4700P
CP2020
AD1
DV1
R2022
10K
CP2021
AD2
DV1
C2023
1000P
VHALF
DV1
D+3.3V
DV1/HIND
R2041
47K
K2041
0
CP2023
SW
DV1
TRV-SW+
HIND
LPCO2
DV1
DV1
EXTRG1
DV1
SDATA
DV1
EXTRG0
DV1
SCLOCK
DV1/HIND
PNRST
DV1
KMODE
TL6201
TP6201
TL6202
TP6202
SDATA
TL6203
TP6203
EXTR0
TL6204
TP6204
SCLOCK
TL6205
TP6205
TL6206
TP6206
PNRST
TL6207
TP6207
D+3.3V
TL6208
TP6208
KMODE
RA6201
(4.7K x 2)
L5221
G1C100K00020
A+5V
HIND/DV1
LPCO1
DV1
AGND
HIND/DV1

SCHEMATIC DIAGRAM - 5

B DVD MODULE 2 (DV1) CIRCUIT

: +B SIGNAL LINE

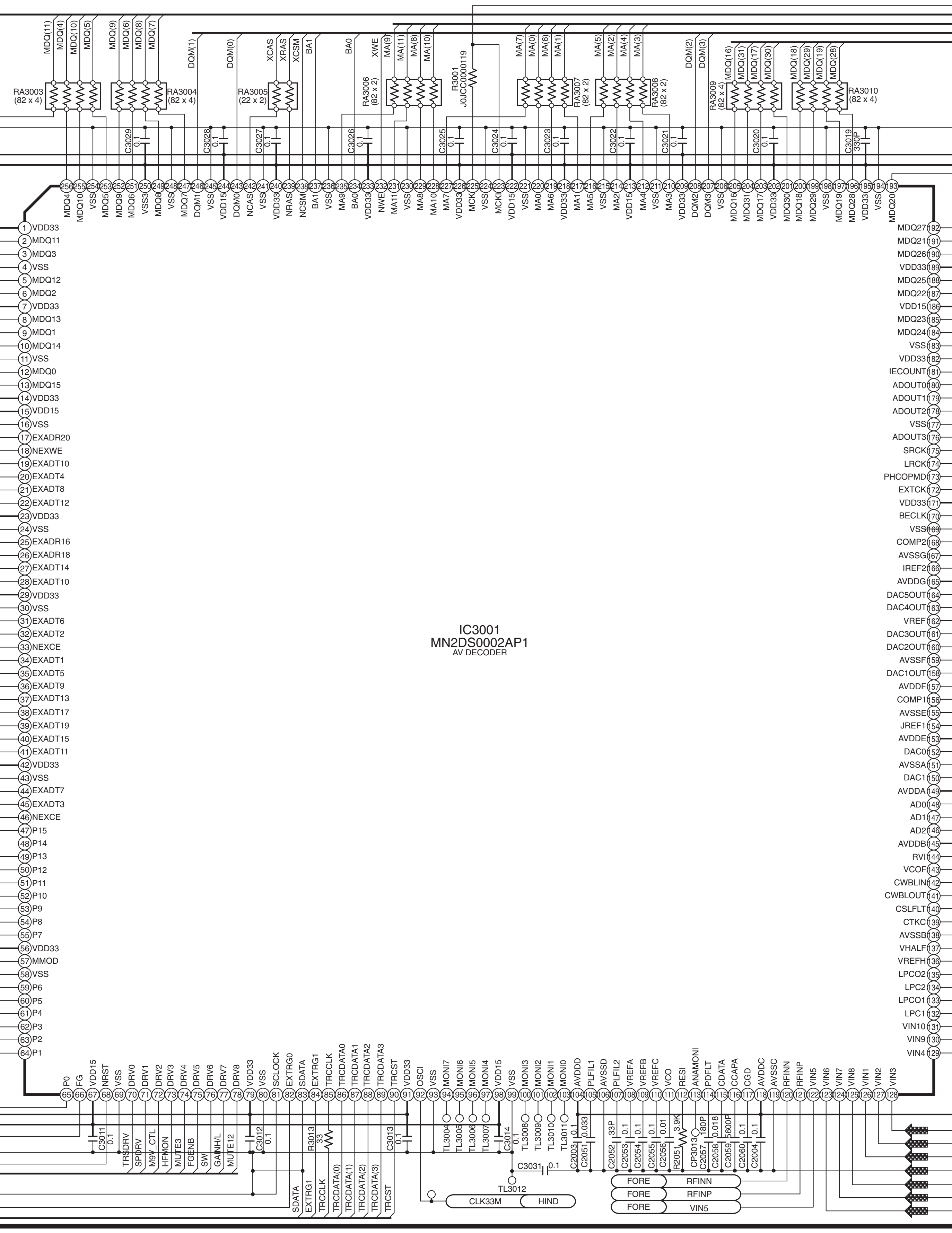


HIND EXADR(20)
HIND EXADR(19)
HIND EXADR(18)
HIND EXADR(17)
HIND EXADR(16)
HIND EXADT(15)
HIND EXADT(14)
HIND EXADT(13)
HIND EXADT(12)
HIND EXADT(11)
HIND EXADT(10)
HIND EXADT(9)
HIND EXADR(8)
HIND EXADT(7)
HIND EXADT(6)
HIND EXADT(5)
HIND EXADT(4)
HIND EXADT(3)
HIND EXADT(2)
HIND EXADT(1)
HIND EXADT(0)
HIND NEXWE
K3011 0
K3012 0
K3013 0
K3014 0
K3015 0
K3016 0
K3017 0
C3003 0.1
RA3002 (82 x 4)
MDQ(3)
MDQ(12)
MDQ(2)
MDQ(13)
C3004 0.1
RA3001 (82 x 4)
MDQ(1)
MDQ(14)
MDQ(0)
MDQ(15)
C3005 0.1
C3006 0.1
EXADR(20)
EXADT(0)
EXADT(4)
EXADT(8)
EXADT(12)
C3007 0.1
EXADR(16)
EXADR(18)
EXADT(14)
EXADT(10)
C3008 0.1
EXADT(6)
EXADT(2)
EXADT(1)
EXADT(5)
EXADT(9)
EXADT(13)
EXADR(17)
EXADR(19)
EXADT(15)
EXADT(11)
C3009 0.1
EXADT(7)
EXADT(3)
HIND P(15)
HIND AMUT
HIND 25BSY(AC3H)
FORE KMODE
HIND SCL
HIND SDA
HIND CLKSEL
HIND SBT1
HIND SBO1
HIND SBI1
HIND DSPCLK_DV1
HIND STATUS_DV1
HIND CMD
HIND STBDAC
HIND NEXCE
HIND NEXDE
IC6201
C0EBE0000070
RESET IC
C6201 0.1
1 M/R
2 SUB
3 GND
VCC 5
VOUT 4
IC6201
R6201 4.7K
C6202 100P
TC6201 CP6203
R6203 0
CP6201
HIND M9V_CTL
FORE TRSDRV
FORE SPDRV
FORE HFMON
FORE MUTE3
FORE FGENB
FORE SW
FORE GAINH/L
FORE MUTE12
RNRST FORE/HIND
NRST FORE/HIND
FORE FG
P(15)
AMUT
CP3012
25BSY(AC3H)
KMODE
SCL
SDA
CLKSEL
C3010 0.1
CP3002
R3002 10K
SBT1
SBO1
SBI1
DSPCLK_DV1
STATUS_DV1
CMD
R3003 10K
STBDAC
R3012 47K
HIND TRCCLK
HIND TRCDATA(0)
HIND TRCDATA(1)
HIND TRCDATA(2)
HIND TRCDATA(3)
HIND TRCST
FORE SDATA
FORE EXTRG1
RA3025 (1K x 2)
FORE SCLOCK
HIND EXTRG0

SCHEMATIC DIAGRAM - 6

B DVD MODULE 2 (DV1) CIRCUIT

———— : +B SIGNAL LINE ▨ : CD-DA SIGNAL LINE

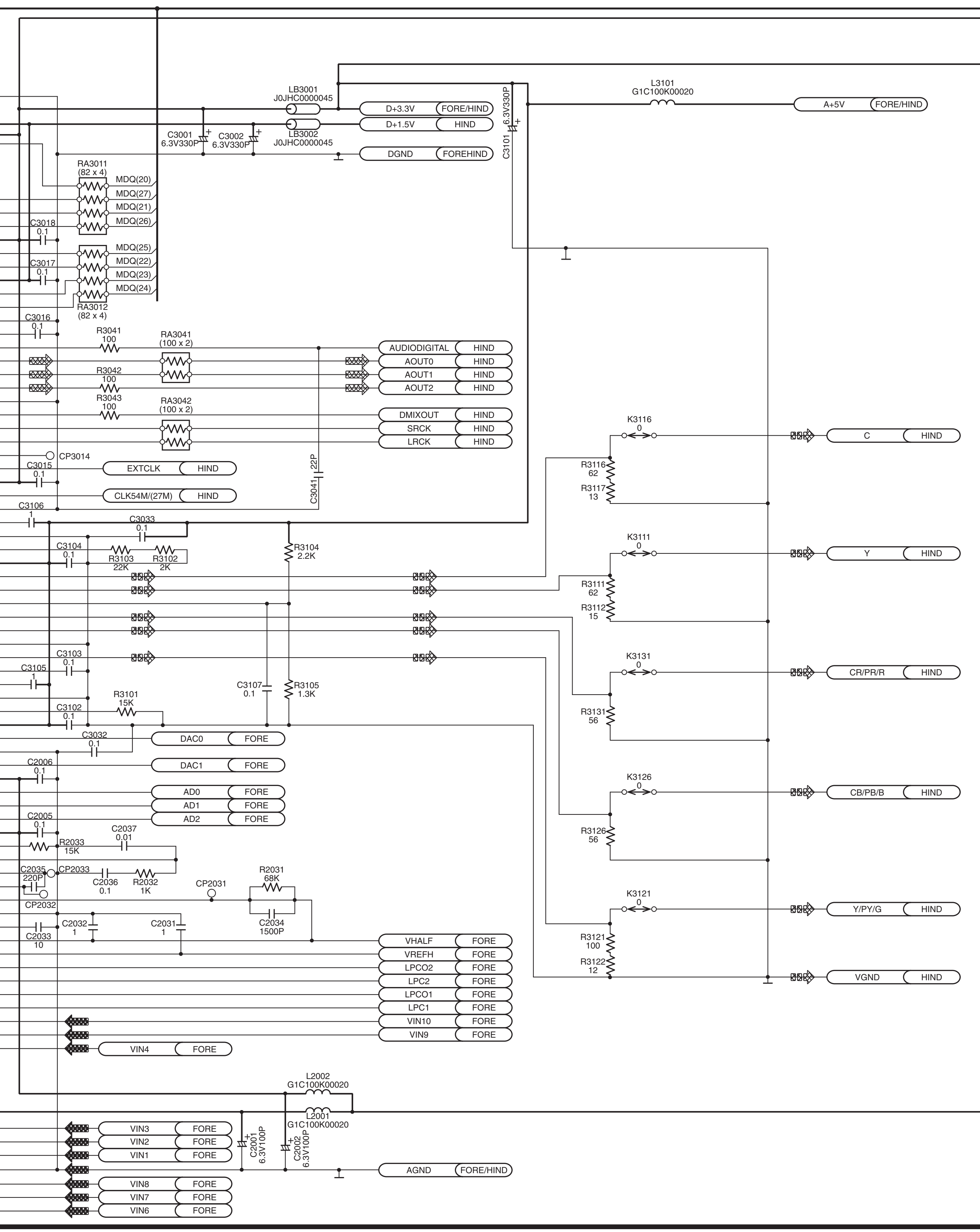


MDQ(11)
MDQ(4)
MDQ(10)
MDQ(5)
RA3003 (82 x 4)
MDQ(9)
MDQ(6)
MDQ(8)
MDQ(7)
RA3004 (82 x 4)
DQM(1)
DQM(0)
XCAS
XRAS
XCSM
BA1
RA3005 (22 x 2)
BA0
XWE
MA(9)
MA(11)
MA(8)
MA(10)
RA3006 (82 x 2)
R3001 J0JCC0000119
MA(7)
MA(0)
MA(6)
MA(1)
RA3007 (82 x 2)
MA(5)
MA(2)
MA(4)
MA(3)
RA3008 (82 x 2)
DQM(2)
DQM(3)
RA3009 (82 x 4)
MDQ(16)
MDQ(31)
MDQ(17)
MDQ(30)
MDQ(18)
MDQ(29)
MDQ(19)
MDQ(28)
RA3010 (82 x 4)
C3029 0.1
C3028 0.1
C3027 0.1
C3026 0.1
C3025 0.1
C3024 0.1
C3023 0.1
C3022 0.1
C3021 0.1
C3020 0.1
C3019 330P
256 MDQ4
255 MDQ10
254 VSS
253 MDQ5
252 MDQ9
251 MDQ6
250 VSS3
249 MDQ8
248 VSS
247 MDQ7
246 DQM1
245 VSS
244 VDD15
243 DQM0
242 NCAS
241 VSS
240 VDD33
239 NRAS
238 NCSM
237 BA1
236 VSS
235 MA9
234 BA0
233 VDD33
232 NWE
231 MA11
230 VSS
229 MA8
228 MA10
227 MA7
226 VDD33
225 MCK
224 VSS
223 MCKI
222 VDD15
221 VSS
220 MA0
219 MA6
218 VDD33
217 MA1
216 MA5
215 VSS
214 MA2
213 VDD15
212 MA4
211 VSS
210 MA3
209 VDD33
208 DQM2
207 DQM3
206 VSS
205 MDQ16
204 MDQ31
203 MDQ17
202 VDD33
201 MDQ30
200 MDQ18
199 MDQ29
198 VSS
197 MDQ19
196 MDQ28
195 VDD33
194 VSS
193 MDQ20
1 VDD33
2 MDQ11
3 MDQ3
4 VSS
5 MDQ12
6 MDQ2
7 VDD33
8 MDQ13
9 MDQ1
10 MDQ14
11 VSS
12 MDQ0
13 MDQ15
14 VDD33
15 VDD15
16 VSS
17 EXADR20
18 NEXWE
19 EXADT10
20 EXADT4
21 EXADT8
22 EXADT12
23 VDD33
24 VSS
25 EXADR16
26 EXADR18
27 EXADT14
28 EXADT10
29 VDD33
30 VSS
31 EXADT6
32 EXADT2
33 NEXCE
34 EXADT1
35 EXADT5
36 EXADT9
37 EXADT13
38 EXADT17
39 EXADT19
40 EXADT15
41 EXADT11
42 VDD33
43 VSS
44 EXADT7
45 EXADT3
46 NEXCE
47 P15
48 P14
49 P13
50 P12
51 P11
52 P10
53 P9
54 P8
55 P7
56 VDD33
57 MMOD
58 VSS
59 P6
60 P5
61 P4
62 P3
63 P2
64 P1
IC3001
MN2DS0002AP1
AV DECODER
MDQ27 192
MDQ21 191
MDQ26 190
VDD33 189
MDQ25 188
MDQ22 187
VDD15 186
MDQ23 185
MDQ24 184
VSS 183
VDD33 182
IECOUNT 181
ADOUT0 180
ADOUT1 179
ADOUT2 178
VSS 177
ADOUT3 176
SRCK 175
LRCK 174
PHCOPMD 173
EXTCK 172
VDD33 171
BECLK 170
VSS 169
COMP2 168
AVSSG 167
IREF2 166
AVDDG 165
DAC5OUT 164
DAC4OUT 163
VREF 162
DAC3OUT 161
DAC2OUT 160
AVSSF 159
DAC1OUT 158
AVDDF 157
COMP1 156
AVSSE 155
JREF1 154
AVDDE 153
DAC0 152
AVSSA 151
DAC1 150
AVDDA 149
AD0 148
AD1 147
AD2 146
AVDDB 145
RVI 144
VCOF 143
CWBLIN 142
CWBLOUT 141
CSLFLT 140
CTKC 139
AVSSB 138
VHALF 137
VREFH 136
LPCO2 135
LPC2 134
LPCO1 133
LPC1 132
VIN10 131
VIN9 130
VIN4 129
65 P0
66 FG
67 VDD15
68 NRST
69 VSS
70 DRV0
71 DRV1
72 DRV2
73 DRV3
74 DRV4
75 DRV5
76 DRV6
77 DRV7
78 DRV8
79 VDD33
80 VSS
81 SCLOCK
82 EXTRG0
83 SDATA
84 EXTRG1
85 TRCCLK
86 TRCDATA0
87 TRCDATA1
88 TRCDATA2
89 TRCDATA3
90 TRCST
91 VDD33
92 OSCI
93 VSS
94 MONI7
95 MONI6
96 MONI5
97 MONI4
98 VDD15
99 VSS
100 MONI3
101 MONI2
102 MONI1
103 MONI0
104 AVDDD
105 PLFIL1
106 AVSSD
107 PLFIL2
108 VREFA
109 VREFB
110 VREFC
111 VCO
112 RESI
113 ANAMONI
114 PDFLT
115 CDATA
116 CCAPA
117 CGD
118 AVDDC
119 AVSSC
120 RFINN
121 RFINP
122 VIN5
123 VIN6
124 VIN7
125 VIN8
126 VIN1
127 VIN2
128 VIN3
C3011 0.1
TRSDRV
SPDRV
M9V_CTL
HFMON
MUTE3
FGENB
SW
GAINH/L
MUTE12
C3012 0.1
R3013 33
SDATA
EXTRG1
TRCCLK
TRCDATA(0)
TRCDATA(1)
TRCDATA(2)
TRCDATA(3)
TRCST
C3013 0.1
TL3004
TL3005
TL3006
TL3007
C3014 0.1
TL3008
TL3009
TL3010
TL3011
C3031 0.1
TL3012
CLK33M
HIND
C2003 0.1
C2051 0.033
C2052 33P
C2053 0.1
C2054 0.1
C2055 0.1
C2056 0.01
R2051 3.9K
CP3013
C2057 180P
C2058 0.018
C2059 5600P
C2060 0.1
C2004 0.1
FORE
RFINN
FORE
RFINP
FORE
VIN5

SCHEMATIC DIAGRAM - 7

B DVD MODULE 2 (DV1) CIRCUIT

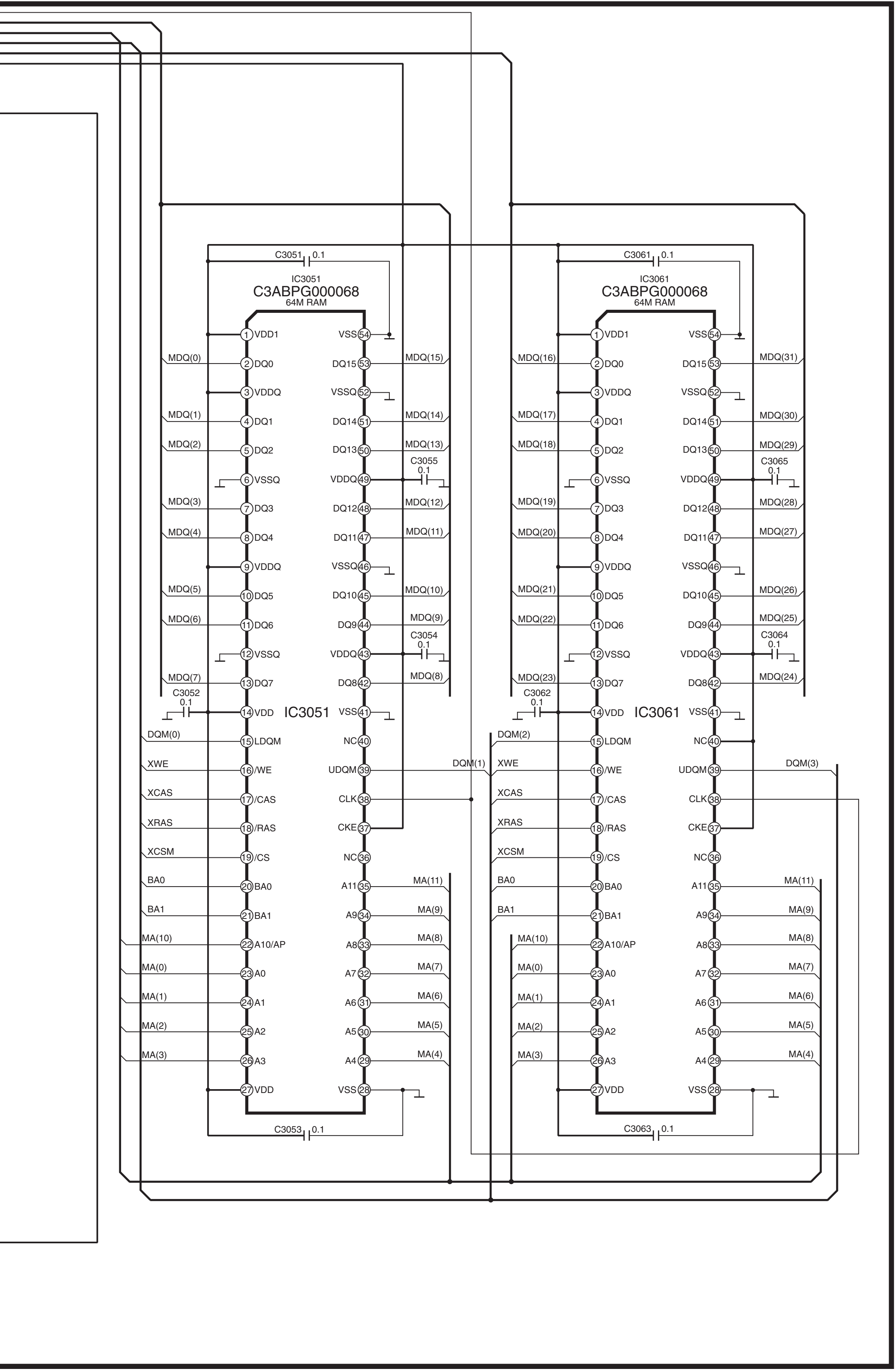
: CD-DA SIGNAL LINE
: +B SIGNAL LINE
: DVD (AUDIO) SIGNAL LINE
: DVD (VIDEO) SIGNAL LINE


LB3001
J0JHC0000045
LB3002
J0JHC0000045
C3001
6.3V330P
C3002
6.3V330P
D+3.3V
FORE/HIND
D+1.5V
HIND
DGND
FOREHIND
C3101
6.3V330P
L3101
G1C100K00020
A+5V
FORE/HIND
RA3011
(82 x 4)
MDQ(20)
MDQ(27)
MDQ(21)
MDQ(26)
C3018
0.1
MDQ(25)
MDQ(22)
MDQ(23)
MDQ(24)
C3017
0.1
RA3012
(82 x 4)
C3016
0.1
R3041
100
RA3041
(100 x 2)
R3042
100
R3043
100
RA3042
(100 x 2)
AUDIODIGITAL
HIND
AOUT0
HIND
AOUT1
HIND
AOUT2
HIND
DMIXOUT
HIND
SRCK
HIND
LRCK
HIND
CP3014
C3015
0.1
EXTCLK
HIND
CLK54M/(27M)
HIND
C3041
22P
C3106
1
C3033
0.1
C3104
0.1
R3103
22K
R3102
2K
R3104
2.2K
C3103
0.1
C3105
1
C3107
0.1
R3105
1.3K
R3101
15K
C3102
0.1
C3032
0.1
DAC0
FORE
DAC1
FORE
C2006
0.1
AD0
FORE
AD1
FORE
AD2
FORE
C2005
0.1
R2033
15K
C2037
0.01
C2035
220P
CP2033
C2036
0.1
R2032
1K
CP2032
CP2031
R2031
68K
C2034
1500P
C2033
10
C2032
1
C2031
1
VHALF
FORE
VREFH
FORE
LPCO2
FORE
LPC2
FORE
LPCO1
FORE
LPC1
FORE
VIN10
FORE
VIN9
FORE
VIN4
FORE
K3116
0
C
HIND
R3116
62
R3117
13
K3111
0
Y
HIND
R3111
62
R3112
15
K3131
0
CR/PR/R
HIND
R3131
56
K3126
0
CB/PB/B
HIND
R3126
56
K3121
0
Y/PY/G
HIND
R3121
100
R3122
12
VGND
HIND
L2002
G1C100K00020
L2001
G1C100K00020
C2001
6.3V100P
C2002
6.3V100P
VIN3
FORE
VIN2
FORE
VIN1
FORE
AGND
FORE/HIND
VIN8
FORE
VIN7
FORE
VIN6
FORE

SCHEMATIC DIAGRAM - 8

B DVD MODULE 2 (DV1) CIRCUIT

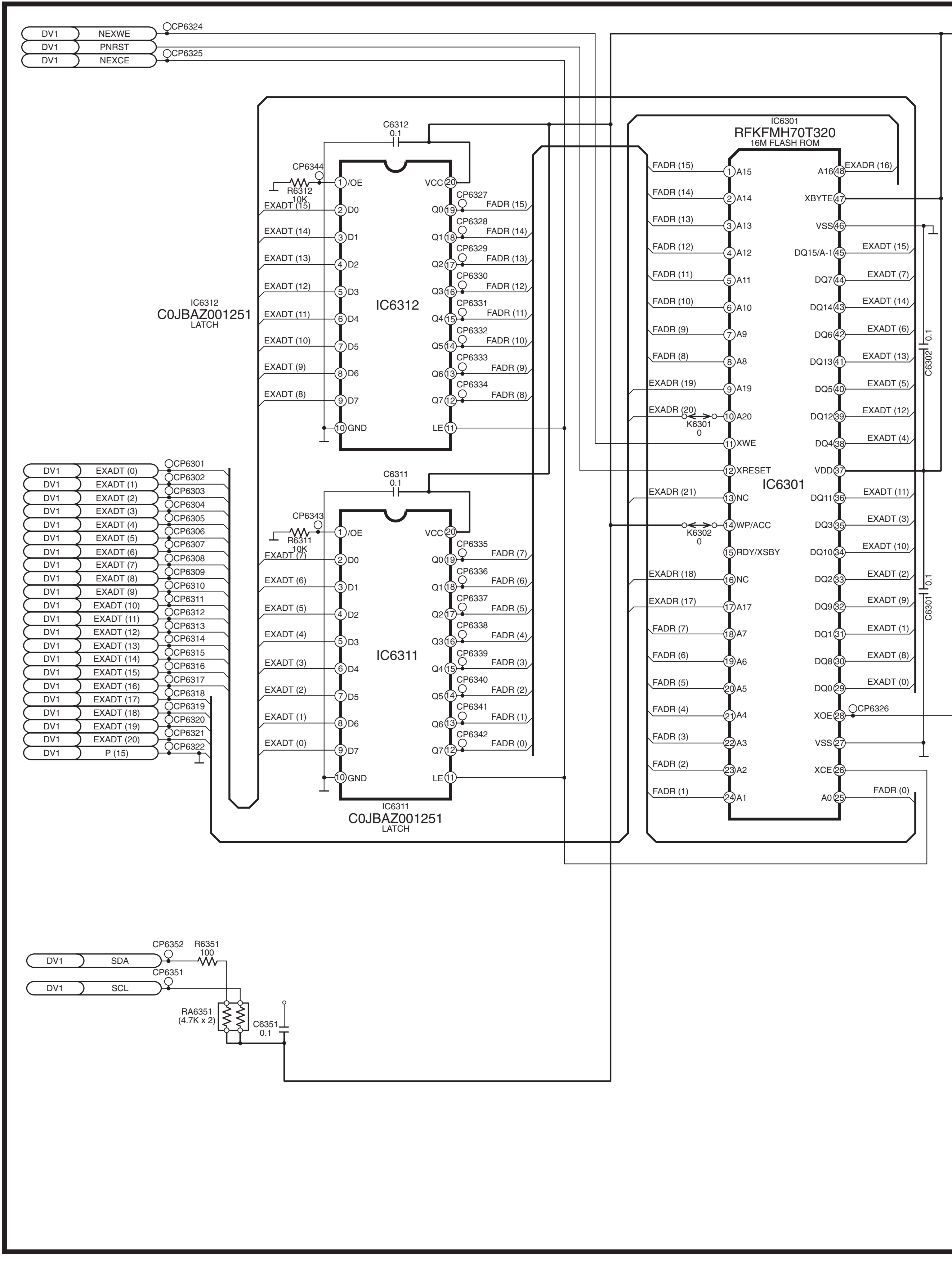
——— : +B SIGNAL LINE


C3051 0.1
IC3051
C3ABPG000068
64M RAM
1 VDD1
2 DQ0
3 VDDQ
4 DQ1
5 DQ2
6 VSSQ
7 DQ3
8 DQ4
9 VDDQ
10 DQ5
11 DQ6
12 VSSQ
13 DQ7
14 VDD
15 LDQM
16 /WE
17 /CAS
18 /RAS
19 /CS
20 BA0
21 BA1
22 A10/AP
23 A0
24 A1
25 A2
26 A3
27 VDD
VSS 54
DQ15 53
VSSQ 52
DQ14 51
DQ13 50
VDDQ 49
DQ12 48
DQ11 47
VSSQ 46
DQ10 45
DQ9 44
VDDQ 43
DQ8 42
VSS 41
NC 40
UDQM 39
CLK 38
CKE 37
NC 36
A11 35
A9 34
A8 33
A7 32
A6 31
A5 30
A4 29
VSS 28
IC3051
MDQ(0)
MDQ(1)
MDQ(2)
MDQ(3)
MDQ(4)
MDQ(5)
MDQ(6)
MDQ(7)
MDQ(15)
MDQ(14)
MDQ(13)
MDQ(12)
MDQ(11)
MDQ(10)
MDQ(9)
MDQ(8)
C3055 0.1
C3054 0.1
C3052 0.1
C3053 0.1
DQM(0)
XWE
XCAS
XRAS
XCSM
BA0
BA1
MA(10)
MA(0)
MA(1)
MA(2)
MA(3)
DQM(1)
MA(11)
MA(9)
MA(8)
MA(7)
MA(6)
MA(5)
MA(4)
C3061 0.1
IC3061
C3ABPG000068
64M RAM
1 VDD1
2 DQ0
3 VDDQ
4 DQ1
5 DQ2
6 VSSQ
7 DQ3
8 DQ4
9 VDDQ
10 DQ5
11 DQ6
12 VSSQ
13 DQ7
14 VDD
15 LDQM
16 /WE
17 /CAS
18 /RAS
19 /CS
20 BA0
21 BA1
22 A10/AP
23 A0
24 A1
25 A2
26 A3
27 VDD
VSS 54
DQ15 53
VSSQ 52
DQ14 51
DQ13 50
VDDQ 49
DQ12 48
DQ11 47
VSSQ 46
DQ10 45
DQ9 44
VDDQ 43
DQ8 42
VSS 41
NC 40
UDQM 39
CLK 38
CKE 37
NC 36
A11 35
A9 34
A8 33
A7 32
A6 31
A5 30
A4 29
VSS 28
IC3061
MDQ(16)
MDQ(17)
MDQ(18)
MDQ(19)
MDQ(20)
MDQ(21)
MDQ(22)
MDQ(23)
MDQ(31)
MDQ(30)
MDQ(29)
MDQ(28)
MDQ(27)
MDQ(26)
MDQ(25)
MDQ(24)
C3065 0.1
C3064 0.1
C3062 0.1
C3063 0.1
DQM(2)
XWE
XCAS
XRAS
XCSM
BA0
BA1
MA(10)
MA(0)
MA(1)
MA(2)
MA(3)
DQM(3)
MA(11)
MA(9)
MA(8)
MA(7)
MA(6)
MA(5)
MA(4)

SCHEMATIC DIAGRAM - 9

B DVD MODULE 2 (HIND) CIRCUIT

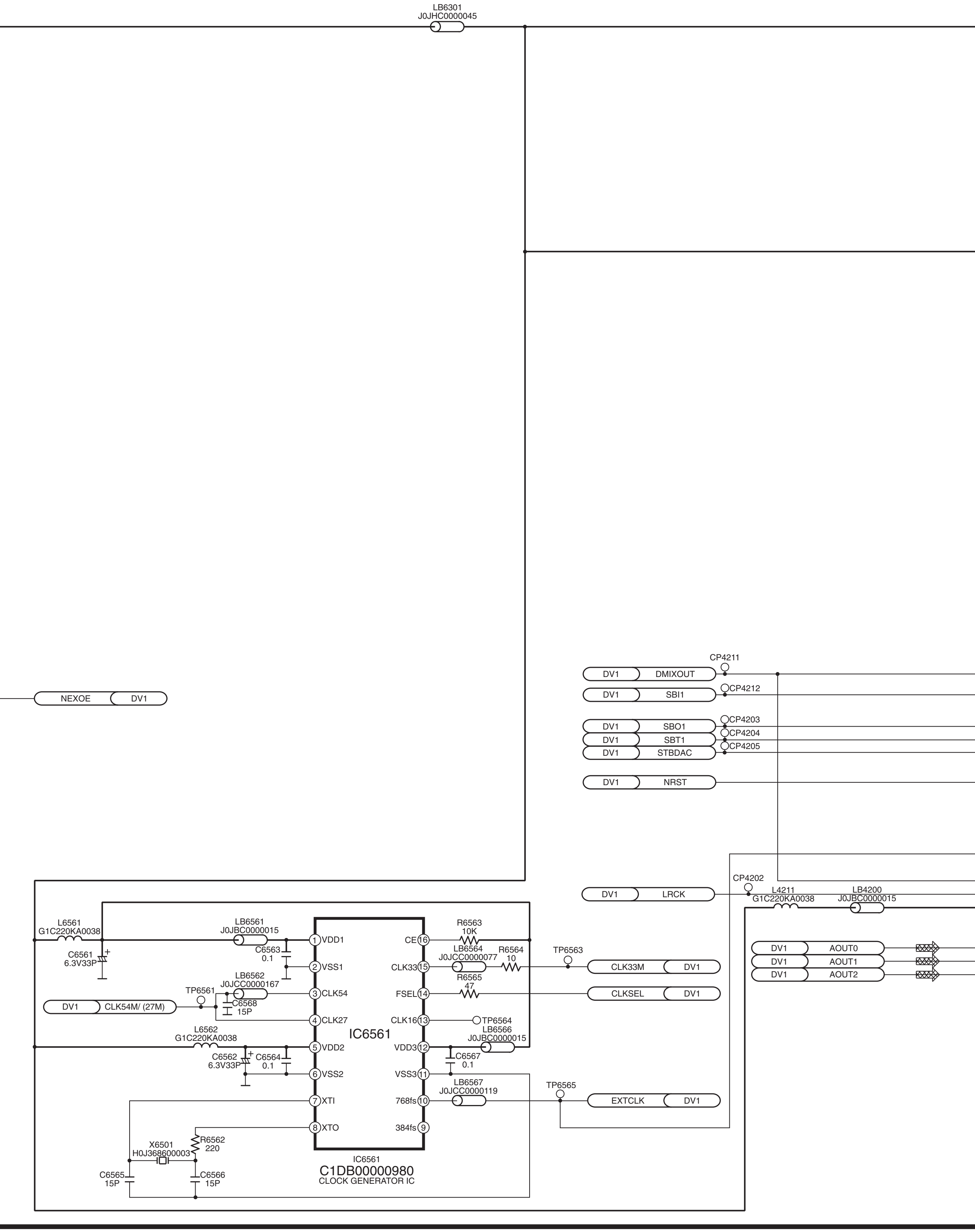
—— : +B SIGNAL LINE


DV1 NEXWE
DV1 PNRST
DV1 NEXCE
CP6324
CP6325
IC6312
C0JBAZ001251
LATCH
C6312
0.1
CP6344
R6312
10K
IC6312
1 /OE
2 D0
3 D1
4 D2
5 D3
6 D4
7 D5
8 D6
9 D7
10 GND
VCC 20
Q0 19
Q1 18
Q2 17
Q3 16
Q4 15
Q5 14
Q6 13
Q7 12
LE 11
EXADT (15)
EXADT (14)
EXADT (13)
EXADT (12)
EXADT (11)
EXADT (10)
EXADT (9)
EXADT (8)
CP6327 FADR (15)
CP6328 FADR (14)
CP6329 FADR (13)
CP6330 FADR (12)
CP6331 FADR (11)
CP6332 FADR (10)
CP6333 FADR (9)
CP6334 FADR (8)
DV1 EXADT (0) CP6301
DV1 EXADT (1) CP6302
DV1 EXADT (2) CP6303
DV1 EXADT (3) CP6304
DV1 EXADT (4) CP6305
DV1 EXADT (5) CP6306
DV1 EXADT (6) CP6307
DV1 EXADT (7) CP6308
DV1 EXADT (8) CP6309
DV1 EXADT (9) CP6310
DV1 EXADT (10) CP6311
DV1 EXADT (11) CP6312
DV1 EXADT (12) CP6313
DV1 EXADT (13) CP6314
DV1 EXADT (14) CP6315
DV1 EXADT (15) CP6316
DV1 EXADT (16) CP6317
DV1 EXADT (17) CP6318
DV1 EXADT (18) CP6319
DV1 EXADT (19) CP6320
DV1 EXADT (20) CP6321
DV1 P (15) CP6322
C6311
0.1
CP6343
R6311
10K
IC6311
EXADT (7)
EXADT (6)
EXADT (5)
EXADT (4)
EXADT (3)
EXADT (2)
EXADT (1)
EXADT (0)
CP6335 FADR (7)
CP6336 FADR (6)
CP6337 FADR (5)
CP6338 FADR (4)
CP6339 FADR (3)
CP6340 FADR (2)
CP6341 FADR (1)
CP6342 FADR (0)
IC6311
C0JBAZ001251
LATCH
IC6301
RFKFMH70T320
16M FLASH ROM
FADR (15) 1 A15
FADR (14) 2 A14
FADR (13) 3 A13
FADR (12) 4 A12
FADR (11) 5 A11
FADR (10) 6 A10
FADR (9) 7 A9
FADR (8) 8 A8
EXADR (19) 9 A19
EXADR (20) 10 A20
K6301
0
11 XWE
12 XRESET
EXADR (21) 13 NC
14 WP/ACC
K6302
0
15 RDY/XSBY
EXADR (18) 16 NC
EXADR (17) 17 A17
FADR (7) 18 A7
FADR (6) 19 A6
FADR (5) 20 A5
FADR (4) 21 A4
FADR (3) 22 A3
FADR (2) 23 A2
FADR (1) 24 A1
A16 48 EXADR (16)
XBYTE 47
VSS 46
DQ15/A-1 45 EXADT (15)
DQ7 44 EXADT (7)
DQ14 43 EXADT (14)
DQ6 42 EXADT (6)
DQ13 41 EXADT (13)
DQ5 40 EXADT (5)
DQ12 39 EXADT (12)
DQ4 38 EXADT (4)
VDD 37
DQ11 36 EXADT (11)
DQ3 35 EXADT (3)
DQ10 34 EXADT (10)
DQ2 33 EXADT (2)
DQ9 32 EXADT (9)
DQ1 31 EXADT (1)
DQ8 30 EXADT (8)
DQ0 29 EXADT (0)
XOE 28 CP6326
VSS 27
XCE 26
A0 25 FADR (0)
C6302 0.1
C6301 0.1
DV1 SDA
DV1 SCL
CP6352
CP6351
R6351
100
RA6351
(4.7K x 2)
C6351
0.1

SCHEMATIC DIAGRAM - 10

B DVD MODULE 2 (HIND) CIRCUIT

——— : +B SIGNAL LINE   ⇨ : DVD (AUDIO) SIGNAL LINE

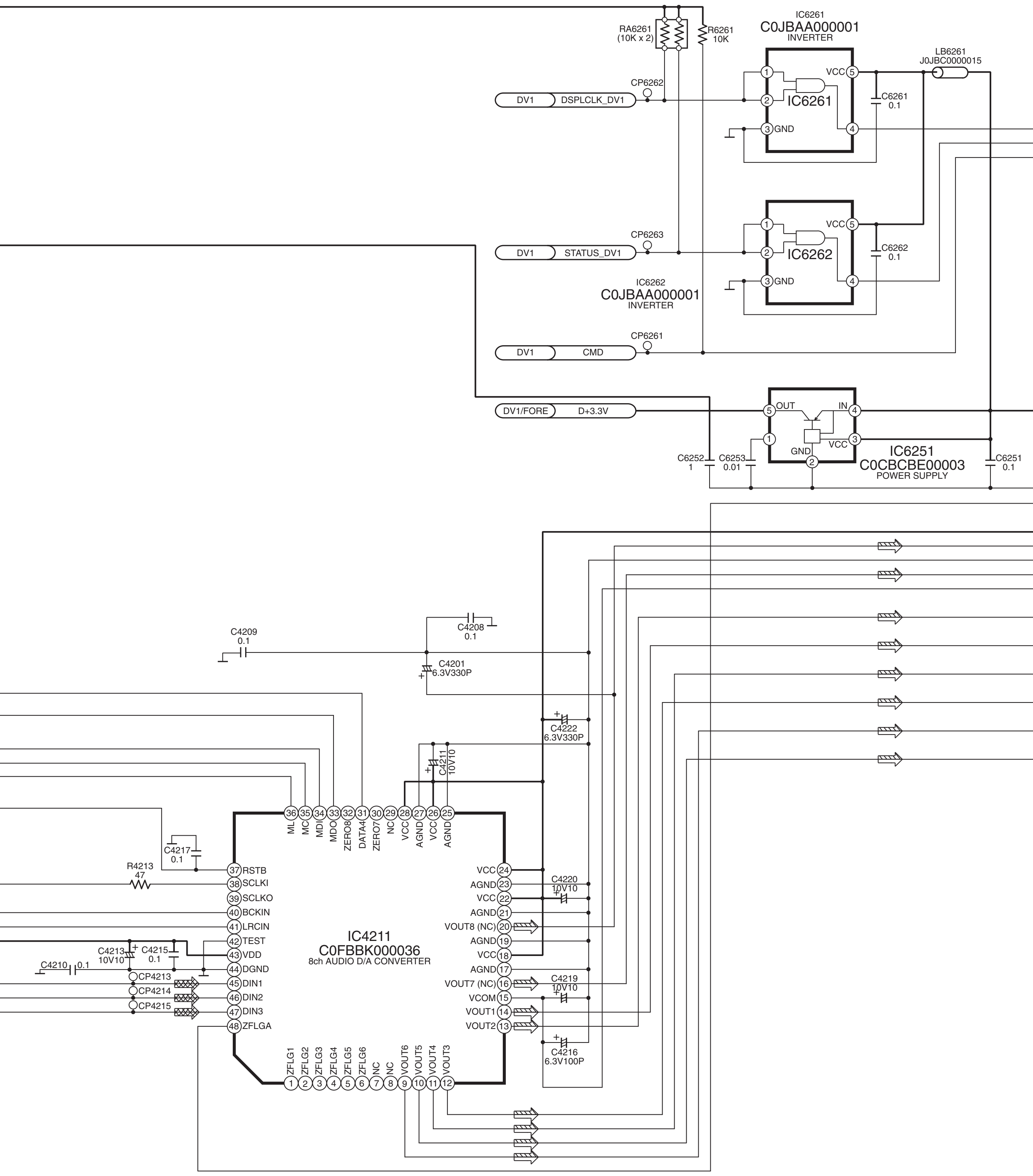

LB6301
J0JHC0000045
NEXOE
DV1
CP4211
DV1 DMIXOUT
CP4212
DV1 SBI1
CP4203
DV1 SBO1
CP4204
DV1 SBT1
CP4205
DV1 STBDAC
DV1 NRST
CP4202
DV1 LRCK
L4211
G1C220KA0038
LB4200
J0JBC0000015
DV1 AOUT0
DV1 AOUT1
DV1 AOUT2
L6561
G1C220KA0038
C6561
6.3V33P
LB6561
J0JBC0000015
C6563
0.1
LB6562
J0JCC0000167
TP6561
C6568
15P
DV1 CLK54M/ (27M)
L6562
G1C220KA0038
C6562
6.3V33P
C6564
0.1
X6501
H0J368600003
R6562
220
C6565
15P
C6566
15P
1 VDD1
2 VSS1
3 CLK54
4 CLK27
5 VDD2
6 VSS2
7 XTI
8 XTO
IC6561
CE 16
CLK33 15
FSEL 14
CLK16 13
VDD3 12
VSS3 11
768fs 10
384fs 9
IC6561
C1DB00000980
CLOCK GENERATOR IC
R6563
10K
LB6564
J0JCC0000077
R6564
10
R6565
47
TP6563
CLK33M DV1
CLKSEL DV1
TP6564
LB6566
J0JBC0000015
C6567
0.1
LB6567
J0JCC0000119
TP6565
EXTCLK DV1

B DVD MODULE 2 (HIND) CIRCUIT

▨ : DVD (AUDIO) SIGNAL LINE

——— : +B SIGNAL LINE

⇨ : MAIN SIGNAL LINE

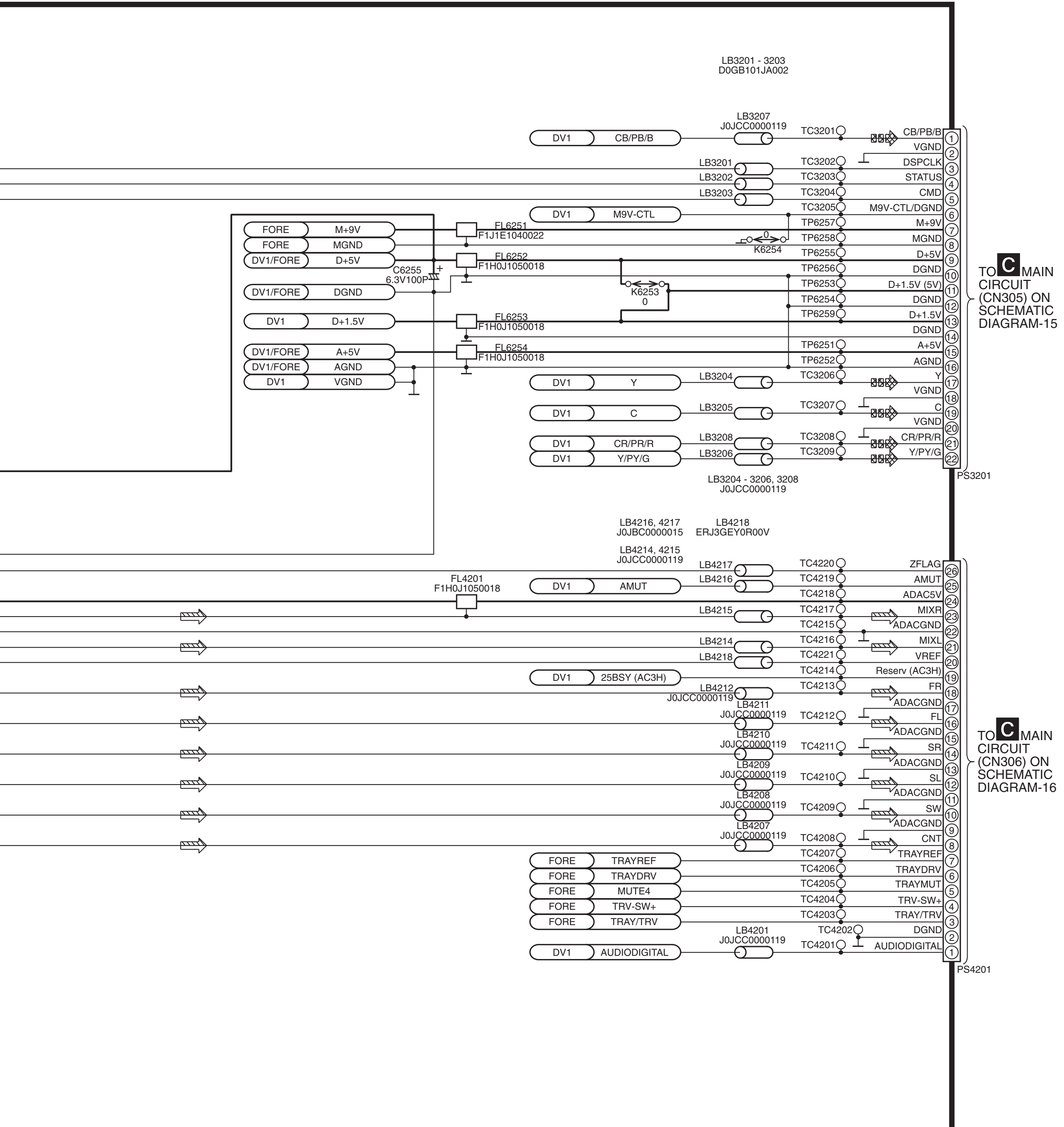

RA6261
(10K x 2)
R6261
10K
IC6261
C0JBAA000001
INVERTER
LB6261
J0JBC0000015
CP6262
DV1
DSPLCLK_DV1
IC6261
VCC
GND
C6261
0.1
CP6263
STATUS_DV1
IC6262
C0JBAA000001
INVERTER
C6262
0.1
CP6261
CMD
DV1/FORE
D+3.3V
OUT
IN
GND
VCC
IC6251
C0CBCBE00003
POWER SUPPLY
C6252
1
C6253
0.01
C6251
0.1
C4209
0.1
C4208
0.1
C4201
6.3V330P
C4222
6.3V330P
C4211
10V10
ML
MC
MDI
MDO
ZERO8
DATA4
ZERO7
NC
VCC
AGND
VCC
AGND
C4217
0.1
R4213
47
RSTB
SCLKI
SCLKO
BCKIN
LRCIN
TEST
VDD
DGND
DIN1
DIN2
DIN3
ZFLGA
C4213
10V10
C4215
0.1
C4210
0.1
CP4213
CP4214
CP4215
IC4211
C0FBBK000036
8ch AUDIO D/A CONVERTER
VCC
AGND
VCC
AGND
VOUT8 (NC)
AGND
VCC
AGND
VOUT7 (NC)
VCOM
VOUT1
VOUT2
C4220
10V10
C4219
10V10
C4216
6.3V100P
ZFLG1
ZFLG2
ZFLG3
ZFLG4
ZFLG5
ZFLG6
NC
NC
VOUT6
VOUT5
VOUT4
VOUT3

SCHEMATIC DIAGRAM - 12

B DVD MODULE 2 (HIND) CIRCUIT

⇨ : DVD (VIDEO) SIGNAL LINE

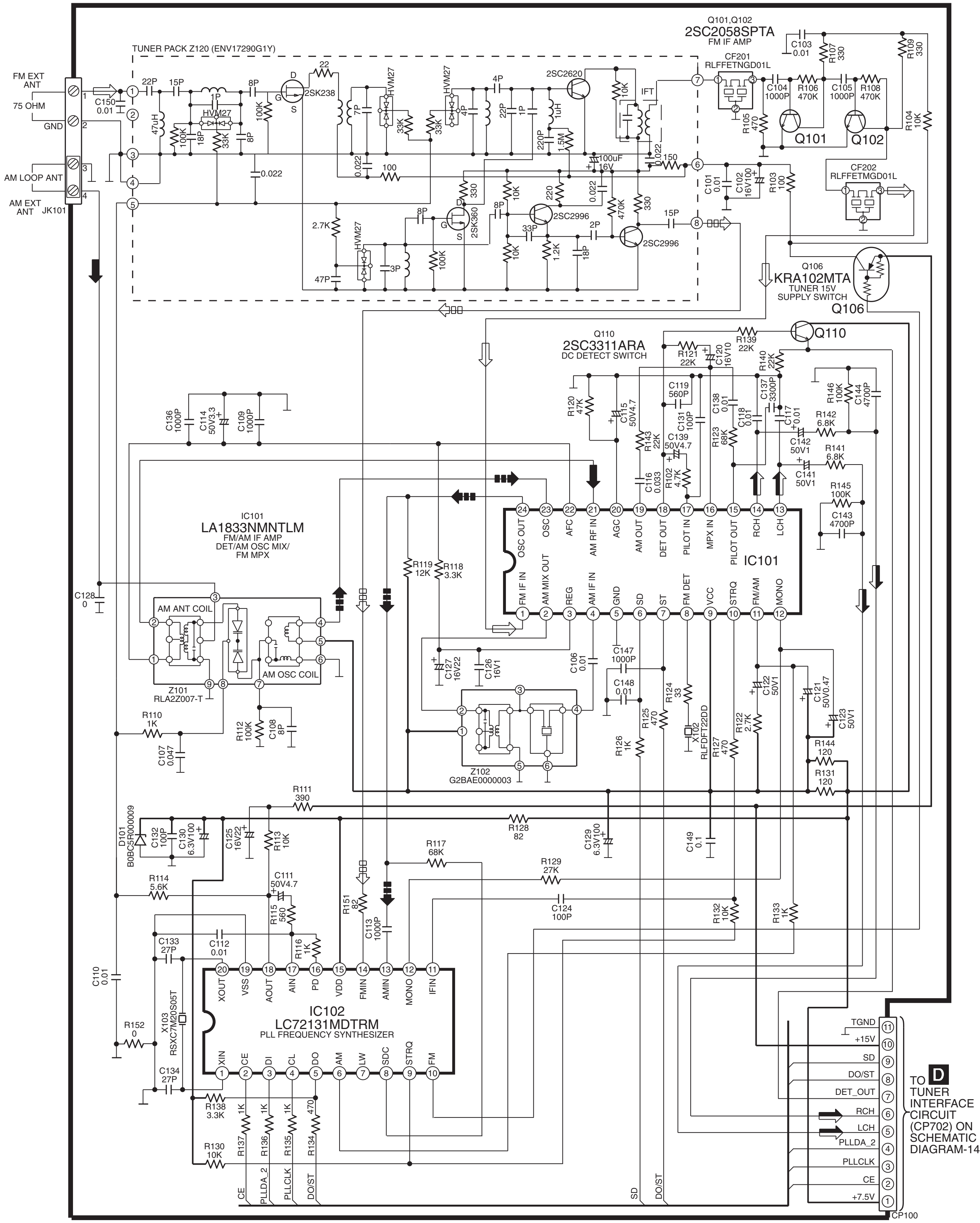
—— : +B SIGNAL LINE ⇨ : MAIN SIGNAL LINE


LB3201 - 3203
D0GB101JA002
LB3207
J0JCC0000119
DV1 CB/PB/B
TC3201 CB/PB/B 1
VGND 2
LB3201 TC3202 DSPCLK 3
LB3202 TC3203 STATUS 4
LB3203 TC3204 CMD 5
DV1 M9V-CTL TC3205 M9V-CTL/DGND 6
FORE M+9V FL6251 F1J1E1040022 TP6257 M+9V 7
FORE MGND 0 K6254 TP6258 MGND 8
DV1/FORE D+5V FL6252 F1H0J1050018 TP6255 D+5V 9
C6255 6.3V100P TP6256 DGND 10
DV1/FORE DGND K6253 0 TP6253 D+1.5V (5V) 11
TP6254 DGND 12
DV1 D+1.5V FL6253 F1H0J1050018 TP6259 D+1.5V 13
DGND 14
DV1/FORE A+5V FL6254 F1H0J1050018 TP6251 A+5V 15
DV1/FORE AGND TP6252 AGND 16
DV1 VGND
DV1 Y LB3204 TC3206 Y 17
VGND 18
DV1 C LB3205 TC3207 C 19
VGND 20
DV1 CR/PR/R LB3208 TC3208 CR/PR/R 21
DV1 Y/PY/G LB3206 TC3209 Y/PY/G 22
PS3201
LB3204 - 3206, 3208
J0JCC0000119
TO C MAIN CIRCUIT (CN305) ON SCHEMATIC DIAGRAM-15
LB4216, 4217
J0JBC0000015
LB4218
ERJ3GEY0R00V
LB4214, 4215
J0JCC0000119
LB4217 TC4220 ZFLAG 26
LB4216 TC4219 AMUT 25
FL4201 F1H0J1050018
DV1 AMUT
TC4218 ADAC5V 24
LB4215 TC4217 MIXR 23
TC4215 ADACGND 22
LB4214 TC4216 MIXL 21
LB4218 TC4221 VREF 20
DV1 25BSY (AC3H) TC4214 Reserv (AC3H) 19
LB4212 J0JCC0000119 TC4213 FR 18
ADACGND 17
LB4211 J0JCC0000119 TC4212 FL 16
ADACGND 15
LB4210 J0JCC0000119 TC4211 SR 14
ADACGND 13
LB4209 J0JCC0000119 TC4210 SL 12
ADACGND 11
LB4208 J0JCC0000119 TC4209 SW 10
ADACGND 9
LB4207 J0JCC0000119 TC4208 CNT 8
FORE TRAYREF TC4207 TRAYREF 7
FORE TRAYDRV TC4206 TRAYDRV 6
FORE MUTE4 TC4205 TRAYMUT 5
FORE TRV-SW+ TC4204 TRV-SW+ 4
FORE TRAY/TRV TC4203 TRAY/TRV 3
LB4201 J0JCC0000119 TC4202 DGND 2
DV1 AUDIODIGITAL TC4201 AUDIODIGITAL 1
PS4201
TO C MAIN CIRCUIT (CN306) ON SCHEMATIC DIAGRAM-16

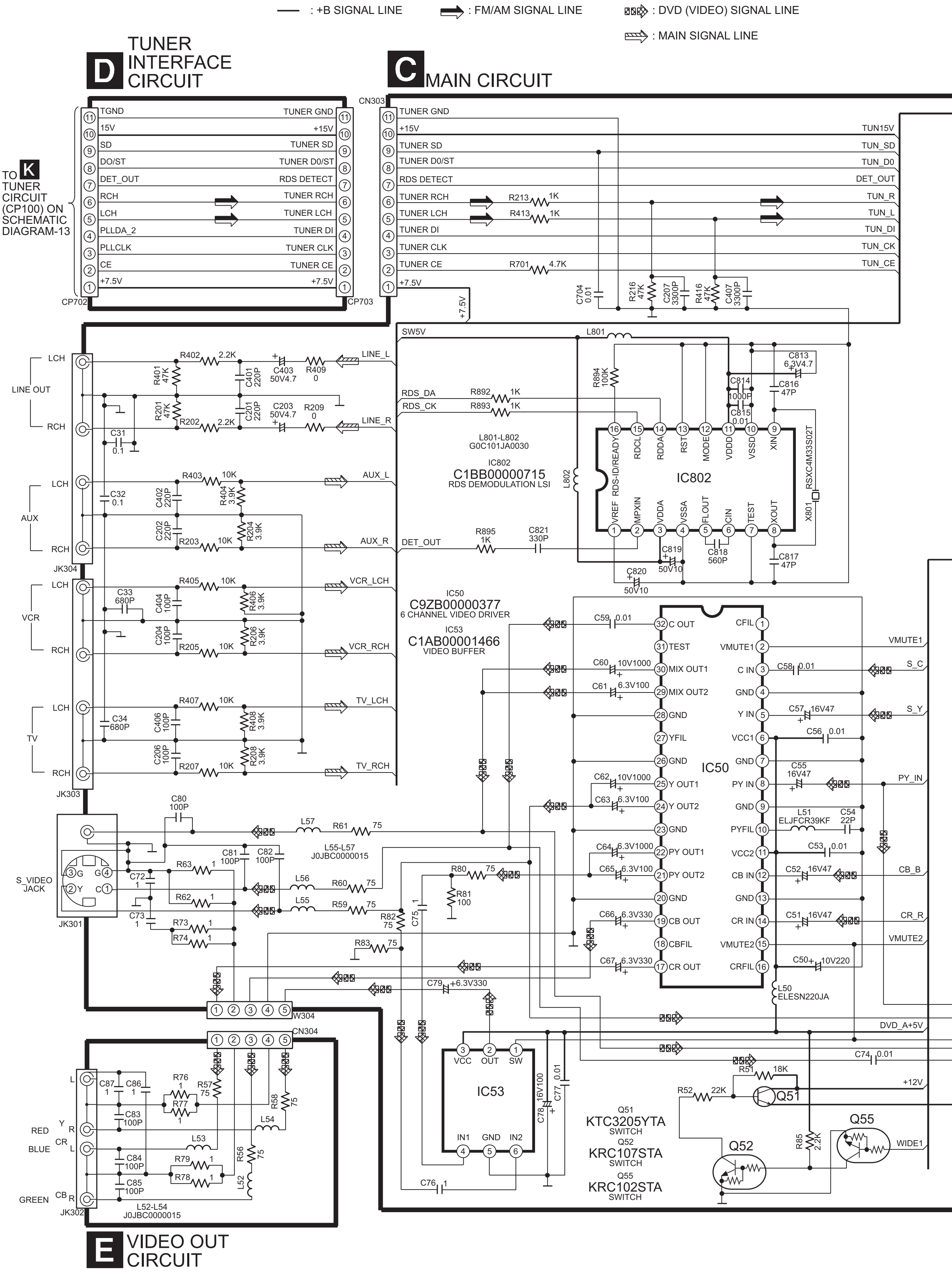
SCHEMATIC DIAGRAM - 13

— : +B SIGNAL LINE
⇨ : FM SIGNAL LINE
➡ : AM SIGNAL LINE
➡ : FM/AM SIGNAL LINE
▭▭⇨ : FM OSC SIGNAL LINE
■■➡ : AM OSC SIGNAL LINE

K TUNER CIRCUIT


FM EXT ANT
75 OHM
GND
AM LOOP ANT
AM EXT ANT
JK101
C150 0.01
TUNER PACK Z120 (ENV17290G1Y)
22P
15P
8P
1P
HVM27
47uH
100K
18P
33K
8P
100K
0.022
22
2SK238
D
G
S
7P
HVM27
33K
33K
HVM27
4P
4P
22P
1P
1uH
220P
1.5M
2SC2620
10K
IFT
100uF 16V
0.022
150
100
0.022
330
10K
220
0.022
470K
330
2SK360
8P
8P
2SC2996
33P
2P
10K
1.2K
18P
15P
2SC2996
2.7K
HVM27
47P
3P
100K
Q101,Q102
2SC2058SPTA
FM IF AMP
CF201
RLFFETNGD01L
C103 0.01
R107 330
R109 330
C104 1000P
R106 470K
C105 1000P
R108 470K
R105 470
Q101
Q102
R104 10K
C101 0.01
C102 16V100
R103 100
CF202
RLFFETMGD01L
Q106
KRA102MTA
TUNER 15V SUPPLY SWITCH
Q106
Q110
2SC3311ARA
DC DETECT SWITCH
R139 22K
Q110
R121 22K
C120 16V10
R140 22K
C136 1000P
C114 50V3.3
C109 1000P
R120 47K
C115 50V4.7
C119 560P
C131 100P
C138 0.01
C137 3300P
C118 0.01
C117 0.01
R146 100K
C144 4700P
R143 22K
C139 50V4.7
R123 68K
C142 50V1
R142 6.8K
R141 6.8K
C141 50V1
C116 0.033
R102 4.7K
R145 100K
C143 4700P
IC101
LA1833NMNTLM
FM/AM IF AMP
DET/AM OSC MIX/
FM MPX
OSC OUT
OSC
AFC
AM RF IN
AGC
AM OUT
DET OUT
PILOT IN
MPX IN
PILOT OUT
RCH
LCH
IC101
FM IF IN
AM MIX OUT
REG
AM IF IN
GND
SD
ST
FM DET
VCC
STRQ
FM/AM
MONO
R119 12K
R118 3.3K
C128 0
AM ANT COIL
AM OSC COIL
Z101
RLA2Z007-T
R110 1K
C107 0.047
R112 100K
C108 8P
C127 16V22
C126 16V1
C106 0.01
C147 1000P
C148 0.01
R124 33
R125 470
R126 1K
X102
RLFDFT22DD
R127 470
R122 2.7K
C122 50V1
C121 50V0.47
C123 50V1
R144 120
R131 120
Z102
G2BAE0000003
R111 390
D101
B0BC5R000009
C132 100P
C130 6.3V100
C125 16V22
R113 10K
R128 82
C129 6.3V100
C149 0.1
R117 68K
R129 27K
R114 5.6K
C111 50V4.7
R115 560
R151 82
C113 1000P
C124 100P
R132 10K
R133 1K
C133 27P
C112 0.01
R116 1K
C110 0.01
XOUT
VSS
AOUT
AIN
PD
VDD
FMIN
AMIN
MONO
IFIN
IC102
LC72131MDTRM
PLL FREQUENCY SYNTHESIZER
XIN
CE
DI
CL
DO
AM
LW
SDC
STRQ
FM
R152 0
X103
RSXC7M20S05T
C134 27P
R138 3.3K
R137 1K
R136 1K
R135 1K
R134 470
R130 10K
CE
PLLDA_2
PLLCLK
DO/ST
SD
DO/ST
TGND
+15V
SD
DO/ST
DET_OUT
RCH
LCH
PLLDA_2
PLLCLK
CE
+7.5V
CP100
TO D TUNER INTERFACE CIRCUIT (CP702) ON SCHEMATIC DIAGRAM-14

SCHEMATIC DIAGRAM - 14

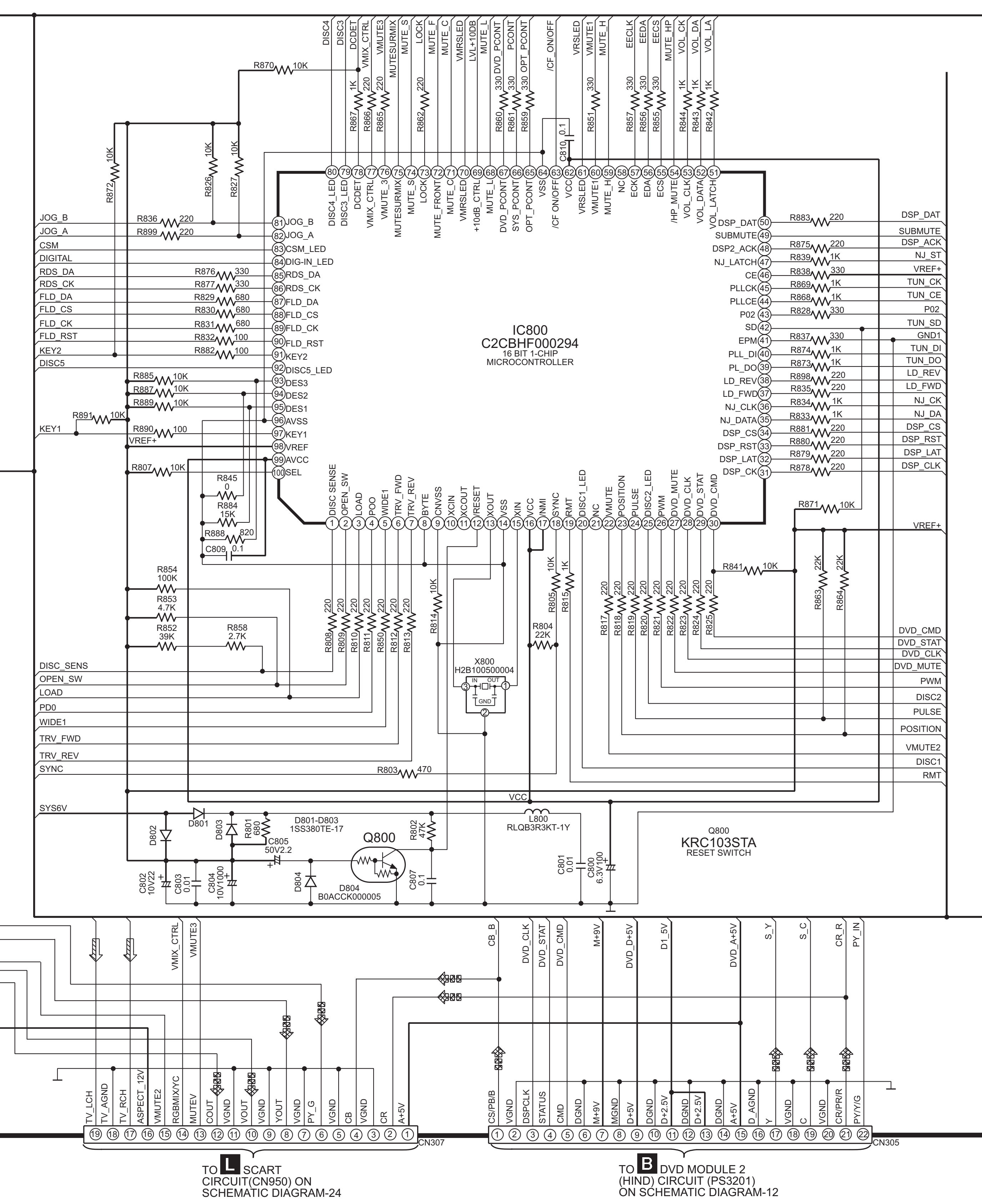


: +B SIGNAL LINE
: FM/AM SIGNAL LINE
: DVD (VIDEO) SIGNAL LINE
: MAIN SIGNAL LINE
D TUNER INTERFACE CIRCUIT
C MAIN CIRCUIT
E VIDEO OUT CIRCUIT
TO K TUNER CIRCUIT (CP100) ON SCHEMATIC DIAGRAM-13
CP702
CP703
CN303
TGND
15V
SD
DO/ST
DET_OUT
RCH
LCH
PLLDA_2
PLLCLK
CE
+7.5V
TUNER GND
+15V
TUNER SD
TUNER D0/ST
RDS DETECT
TUNER RCH
TUNER LCH
TUNER DI
TUNER CLK
TUNER CE
TUN15V
TUN_SD
TUN_D0
DET_OUT
TUN_R
TUN_L
TUN_DI
TUN_CK
TUN_CE
R213 1K
R413 1K
R701 4.7K
C704 0.01
R216 47K
C207 3300P
R416 47K
C407 3300P
SW5V
L801
C813 6.3V4.7
C814 1000P
C815 0.01
C816 47P
R894 100K
RDS_DA
RDS_CK
R892 1K
R893 1K
L801-L802 G0C101JA0030
IC802 C1BB00000715 RDS DEMODULATION LSI
IC802
RDS-ID/READY
RDCL
RDDA
RST
MODE
VDDD
VSSD
XIN
VREF
MPXIN
VDDA
VSSA
FLOUT
CIN
TEST
XOUT
X801 RSXC4M33S02T
L802
R895 1K
C821 330P
C819 50V10
C818 560P
C817 47P
C820 50V10
LINE OUT
AUX
VCR
TV
JK304
JK303
R402 2.2K
R401 47K
C401 220P
C403 50V4.7
R409 0
LINE_L
R201 47K
C201 220P
C203 50V4.7
R209 0
R202 2.2K
LINE_R
C31 0.1
R403 10K
C402 220P
R404 3.9K
AUX_L
C32 0.1
C202 220P
R204 3.9K
R203 10K
AUX_R
R405 10K
C33 680P
C404 100P
R406 3.9K
VCR_LCH
C204 100P
R206 3.9K
R205 10K
VCR_RCH
R407 10K
C34 680P
C406 100P
R408 3.9K
TV_LCH
C206 100P
R208 3.9K
R207 10K
TV_RCH
IC50 C9ZB00000377 6 CHANNEL VIDEO DRIVER
IC53 C1AB00001466 VIDEO BUFFER
IC50
C OUT
TEST
MIX OUT1
MIX OUT2
GND
YFIL
Y OUT1
Y OUT2
PY OUT1
PY OUT2
CB OUT
CBFIL
CR OUT
CFIL
VMUTE1
C IN
Y IN
VCC1
PY IN
PYFIL
VCC2
CB IN
CR IN
VMUTE2
CRFIL
C59 0.01
C60 10V1000
C61 6.3V100
C62 10V1000
C63 6.3V100
C64 6.3V1000
C65 6.3V100
C66 6.3V330
C67 6.3V330
C58 0.01
C57 16V47
C56 0.01
C55 16V47
L51 ELJFCR39KF
C54 22P
C53 0.01
C52 16V47
C51 16V47
C50 10V220
L50 ELESN220JA
S_C
S_Y
PY_IN
CB_B
CR_R
VMUTE2
DVD_A+5V
C74 0.01
+12V
WIDE1
S_VIDEO JACK
JK301
C80 100P
L57
R61 75
L55-L57 J0JBC0000015
C81 100P
C82 100P
R63 1
L56
R60 75
R62 1
L55
R59 75
C72 1
C73 1
R73 1
R74 1
R80 75
R81 100
R82 75
C75 1
R83 75
C79 +6.3V330
W304
CN304
IC53
VCC
OUT
SW
IN1
GND
IN2
C78 16V100
C77 0.01
C76 1
R51 18K
R52 22K
Q51
Q52
Q55
R85 2.2K
Q51 KTC3205YTA SWITCH
Q52 KRC107STA SWITCH
Q55 KRC102STA SWITCH
C87 1
C86 1
R76 1
R77 1
R57 75
R58 75
C83 100P
L54
L53
C84 100P
R79 1
R78 1
R56 75
L52
C85 100P
L52-L54 J0JBC0000015
RED
BLUE
GREEN
Y
CR
CB
JK302

SCHEMATIC DIAGRAM - 15

: +B SIGNAL LINE   : DVD (VIDEO) SIGNAL LINE   : MAIN SIGNAL LINE

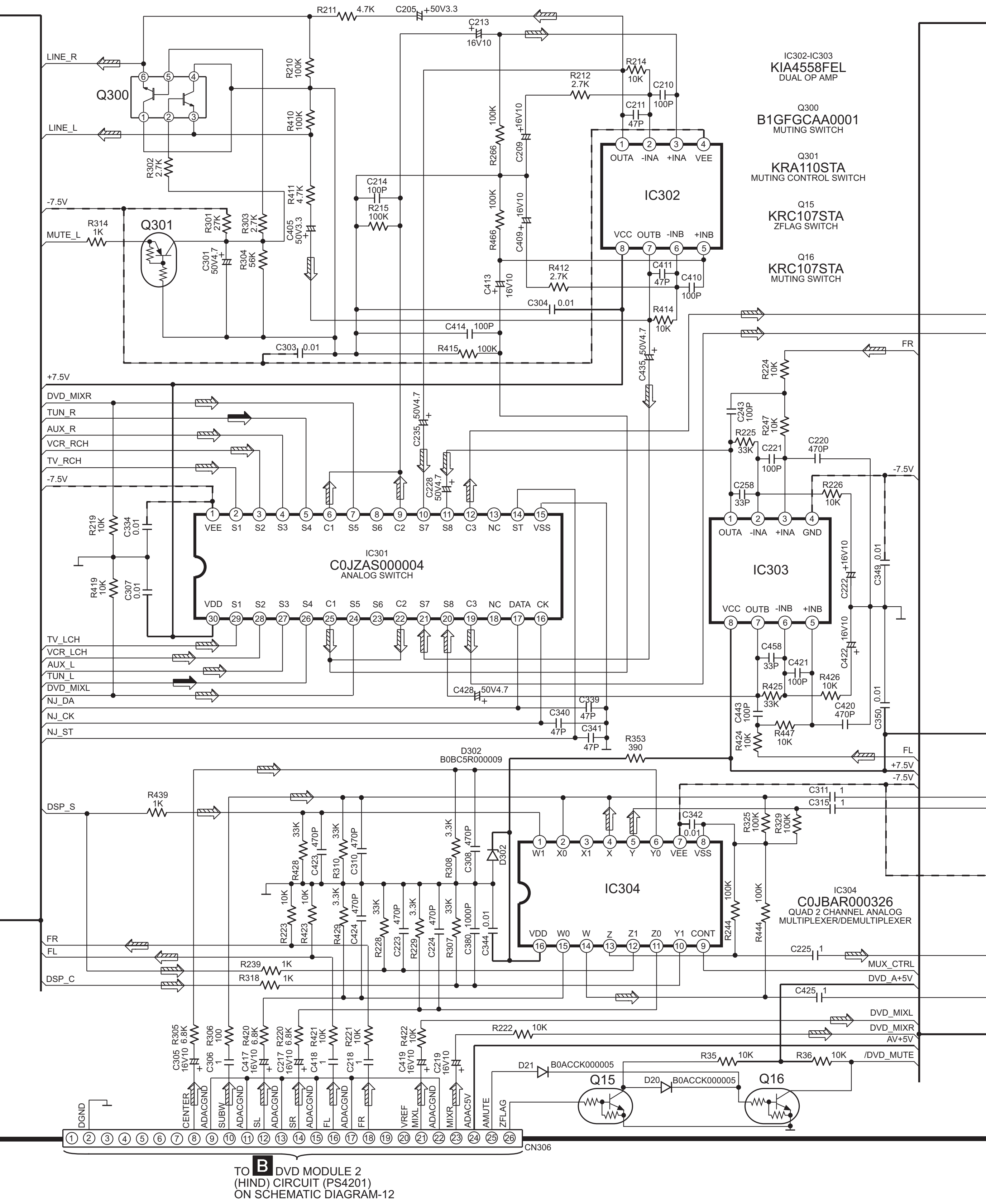
C MAIN CIRCUIT


IC800
C2CBHF000294
16 BIT 1-CHIP
MICROCONTROLLER
DISC4
DISC3
DCDET
VMIX_CTRL
VMUTE3
MUTESURMIX
MUTE_S
LOCK
MUTE_F
MUTE_C
VMRSLED
LVL+10DB
MUTE_L
DVD_PCONT
PCONT
OPT_PCONT
/CF_ON/OFF
VRSLED
VMUTE1
MUTE_H
EECLK
EEDA
EECS
MUTE_HP
VOL_CK
VOL_DA
VOL_LA
R870 10K
R872 10K
R826 10K
R827 10K
R867 1K
R866 220
R865 220
R862 220
R860 330
R861 330
R859 330
C810 0.1
R851 330
R857 330
R856 330
R855 330
R844 1K
R843 1K
R842 1K
80 DISC4_LED
79 DISC3_LED
78 DCDET
77 VMIX_CTRL
76 VMUTE_3
75 MUTESURMIX
74 MUTE_S
73 LOCK
72 MUTE_FRONT
71 MUTE_C
70 VMRSLED
69 +10dB_CTRL
68 MUTE_L
67 DVD_PCONT
66 SYS_PCONT
65 OPT_PCONT
64 VSS
63 /CF ON/OFF
62 VCC
61 VRSLED
60 VMUTE1
59 MUTE_H
58 NC
57 ECK
56 EDA
55 ECS
54 /HP_MUTE
53 VOL_CLK
52 VOL_DATA
51 VOL_LATCH
JOG_B
JOG_A
CSM
DIGITAL
RDS_DA
RDS_CK
FLD_DA
FLD_CS
FLD_CK
FLD_RST
KEY2
DISC5
KEY1
R836 220
R899 220
R876 330
R877 330
R829 680
R830 680
R831 680
R832 100
R882 100
R885 10K
R887 10K
R889 10K
R891 10K
R890 100
VREF+
R807 10K
R845 0
R884 15K
R888 820
C809 0.1
81 JOG_B
82 JOG_A
83 CSM_LED
84 DIG-IN_LED
85 RDS_DA
86 RDS_CK
87 FLD_DA
88 FLD_CS
89 FLD_CK
90 FLD_RST
91 KEY2
92 DISC5_LED
93 DES3
94 DES2
95 DES1
96 AVSS
97 KEY1
98 VREF
99 AVCC
100 SEL
50 DSP_DAT
49 SUBMUTE
48 DSP2_ACK
47 NJ_LATCH
46 CE
45 PLLCK
44 PLLCE
43 P02
42 SD
41 EPM
40 PLL_DI
39 PL_DO
38 LD_REV
37 LD_FWD
36 NJ_CLK
35 NJ_DATA
34 DSP_CS
33 DSP_RST
32 DSP_LAT
31 DSP_CK
R883 220
R875 220
R839 1K
R838 330
R869 1K
R868 1K
R828 330
R837 330
R874 1K
R873 1K
R898 220
R835 220
R834 1K
R833 1K
R881 220
R880 220
R879 220
R878 220
DSP_DAT
SUBMUTE
DSP_ACK
NJ_ST
VREF+
TUN_CK
TUN_CE
P02
TUN_SD
GND1
TUN_DI
TUN_DO
LD_REV
LD_FWD
NJ_CK
NJ_DA
DSP_CS
DSP_RST
DSP_LAT
DSP_CLK
1 DISC SENSE
2 OPEN_SW
3 LOAD
4 POO
5 WIDE1
6 TRV_FWD
7 TRV_REV
8 BYTE
9 CNVSS
10 XCIN
11 XCOUT
12 /RESET
13 XOUT
14 VSS
15 XIN
16 VCC
17 /NMI
18 SYNC
19 RMT
20 DISC1_LED
21 NC
22 VMUTE
23 POSITION
24 PULSE
25 DISC2_LED
26 PWM
27 DVD_MUTE
28 DVD_CLK
29 DVD_STAT
30 DVD_CMD
R871 10K
VREF+
R841 10K
R863 22K
R864 22K
R854 100K
R853 4.7K
R852 39K
R858 2.7K
R808 220
R809 220
R810 220
R811 220
R850 220
R812 220
R813 220
R814 10K
R805 10K
R815 1K
R804 22K
R817 220
R818 220
R819 220
R820 220
R821 220
R822 220
R823 220
R824 220
R825 220
X800
H2B100500004
IN OUT GND
DVD_CMD
DVD_STAT
DVD_CLK
DVD_MUTE
PWM
DISC2
PULSE
POSITION
VMUTE2
DISC1
RMT
DISC_SENS
OPEN_SW
LOAD
PD0
WIDE1
TRV_FWD
TRV_REV
SYNC
R803 470
VCC
SYS6V
D801
D802
D803
R801 680
D801-D803
1SS380TE-17
C805 50V2.2
Q800
R802 47K
L800
RLQB3R3KT-1Y
Q800
KRC103STA
RESET SWITCH
C802 10V22
C803 0.01
C804 10V1000
D804
D804
B0ACCK000005
C807 0.1
C801 0.01
C800 6.3V100
VMIX_CTRL
VMUTE3
CB_B
DVD_CLK
DVD_STAT
DVD_CMD
M+9V
DVD_D+5V
D1_5V
DVD_A+5V
S_Y
S_C
CR_R
PY_IN
TV_LCH
TV_AGND
TV_RCH
ASPECT_12V
VMUTE2
RGBMIX/YC
MUTEV
COUT
VGND
VOUT
VGND
YOUT
VGND
PY_G
VGND
CB
VGND
CR
A+5V
19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
CN307
CS/PB/B
VGND
DSPCLK
STATUS
CMD
DGND
M+9V
MGND
D+5V
DGND
D+2.5V
DGND
D+2.5V
DGND
A+5V
D_AGND
Y
VGND
C
VGND
CR/PR/R
PY/Y/G
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
CN305
TO L SCART
CIRCUIT(CN950) ON
SCHEMATIC DIAGRAM-24
TO B DVD MODULE 2
(HIND) CIRCUIT (PS3201)
ON SCHEMATIC DIAGRAM-12

SCHEMATIC DIAGRAM - 16

—— : +B SIGNAL LINE – – : -B SIGNAL LINE ➡ : FM/AM SIGNAL LINE ⇨ : MAIN SIGNAL LINE

C MAIN CIRCUIT



LINE_R
LINE_L
-7.5V
MUTE_L
R314 1K
Q300
Q301
R302 2.7K
R301 27K
R303 2.7K
R304 56K
C301 50V4.7
R211 4.7K
C205 50V3.3
C213 16V10
R210 100K
R410 100K
R411 4.7K
C405 50V3.3
C214 100P
R215 100K
R266 100K
C209 16V10
R466 100K
C409 16V10
C413 16V10
R412 2.7K
R214 10K
R212 2.7K
C210 100P
C211 47P
IC302
OUTA -INA +INA VEE
VCC OUTB -INB +INB
C411 47P
C410 100P
C304 0.01
R414 10K
C414 100P
R415 100K
C303 0.01
C435 50V4.7
+7.5V
DVD_MIXR
TUN_R
AUX_R
VCR_RCH
TV_RCH
-7.5V
R219 10K
C334 0.01
R419 10K
C307 0.01
C235 50V4.7
C228 50V4.7
IC301
C0JZAS000004
ANALOG SWITCH
VEE S1 S2 S3 S4 C1 S5 S6 C2 S7 S8 C3 NC ST VSS
VDD S1 S2 S3 S4 C1 S5 S6 C2 S7 S8 C3 NC DATA CK
TV_LCH
VCR_LCH
AUX_L
TUN_L
DVD_MIXL
NJ_DA
NJ_CK
NJ_ST
C428 50V4.7
C339 47P
C340 47P
C341 47P
FR
R224 10K
C243 100P
R247 10K
R225 33K
C221 100P
C220 470P
-7.5V
C258 33P
R226 10K
IC303
OUTA -INA +INA GND
VCC OUTB -INB +INB
C222 16V10
C349 0.01
C422 16V10
C458 33P
C421 100P
R426 10K
R425 33K
C443 100P
C420 470P
C350 0.01
R424 10K
R447 10K
FL
+7.5V
-7.5V
R353 390
D302
B0BC5R000009
DSP_S
R439 1K
R428 33K
C423 470P
R310 33K
C310 470P
R308 3.3K
C308 470P
C311 1
C315 1
C342 0.01
R325 100K
R329 100K
IC304
W1 X0 X1 X Y Y0 VEE VSS
VDD W0 W Z Z1 Z0 Y1 CONT
R223 10K
R423 10K
R429 3.3K
C424 470P
R228 33K
C223 470P
R229 3.3K
C224 470P
R307 33K
C380 1000P
C344 0.01
R244 100K
R444 100K
C225 1
MUX_CTRL
DVD_A+5V
C425 1
FR
FL
R239 1K
R318 1K
DSP_C
R305 6.8K
R306 100
R420 6.8K
R220 6.8K
R421 10K
R221 10K
R422 10K
R222 10K
C305 16V10
C306 1
C417 16V10
C217 16V10
C418 1
C218 1
C419 16V10
C219 16V10
DVD_MIXL
DVD_MIXR
AV+5V
R35 10K
R36 10K
/DVD_MUTE
D21 B0ACCK000005
D20 B0ACCK000005
Q15
Q16
DGND
CENTER ADACGND SUBW ADACGND SL ADACGND SR ADACGND FL ADACGND FR VREF MIXL ADACGND MIXR ADAC5V AMUTE ZFLAG
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖
CN306

IC302-IC303
KIA4558FEL
DUAL OP AMP

Q300
B1GFGCAA0001
MUTING SWITCH

Q301
KRA110STA
MUTING CONTROL SWITCH

Q15
KRC107STA
ZFLAG SWITCH

Q16
KRC107STA
MUTING SWITCH

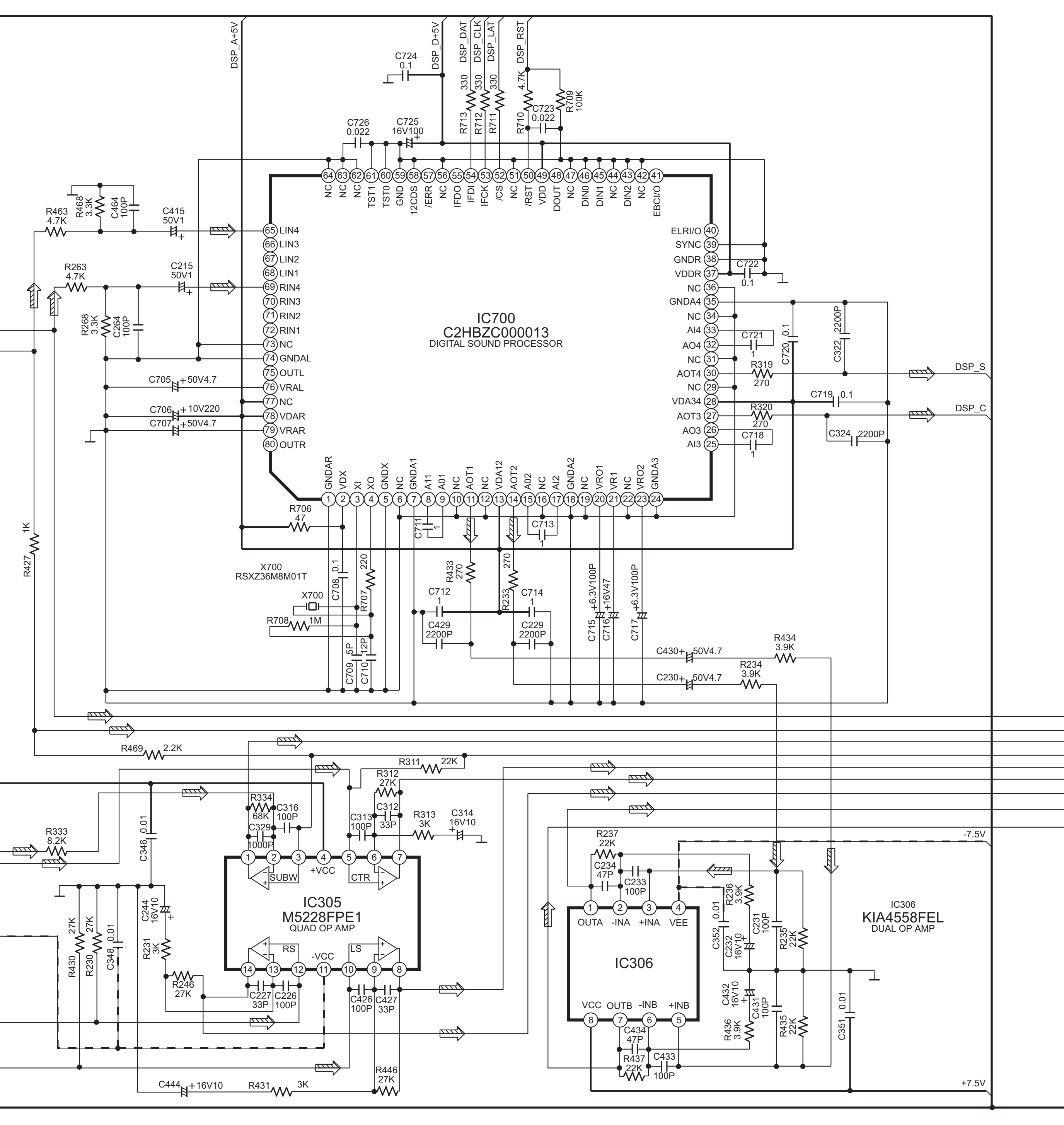
IC304
C0JBAR000326
QUAD 2 CHANNEL ANALOG
MULTIPLEXER/DEMULTIPLEXER

TO B DVD MODULE 2
(HIND) CIRCUIT (PS4201)
ON SCHEMATIC DIAGRAM-12

SCHEMATIC DIAGRAM - 17

—— : +B SIGNAL LINE　– – : -B SIGNAL LINE　⇨ : MAIN SIGNAL LINE

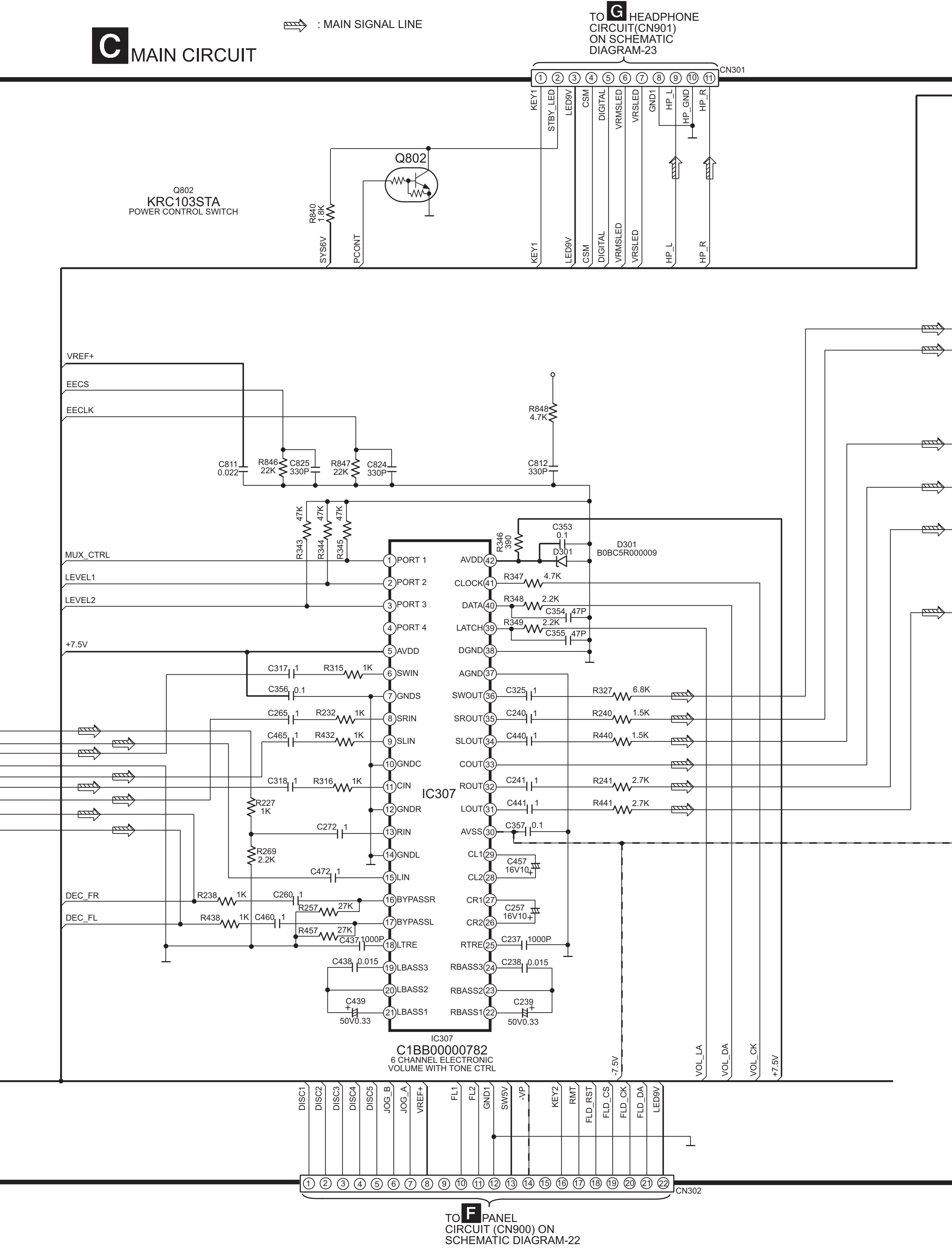
C MAIN CIRCUIT


DSP_A+5V
DSP_D+5V
DSP_DAT
DSP_CLK
DSP_LAT
DSP_RST
C724 0.1
R713 330
R712 330
R711 330
R710 4.7K
R709 100K
C723 0.022
C726 0.022
C725 16V100
IC700
C2HBZC000013
DIGITAL SOUND PROCESSOR
64 NC
63 NC
62 NC
61 TST1
60 TST0
59 GND
58 12CDS
57 /ERR
56 NC
55 IFDO
54 IFDI
53 IFCK
52 /CS
51 NC
50 /RST
49 VDD
48 DOUT
47 NC
46 DIN0
45 DIN1
44 NC
43 DIN2
42 NC
41 EBCI/O
40 ELRI/O
39 SYNC
38 GNDR
37 VDDR
36 NC
35 GNDA4
34 NC
33 AI4
32 AO4
31 NC
30 AOT4
29 NC
28 VDA34
27 AOT3
26 AO3
25 AI3
65 LIN4
66 LIN3
67 LIN2
68 LIN1
69 RIN4
70 RIN3
71 RIN2
72 RIN1
73 NC
74 GNDAL
75 OUTL
76 VRAL
77 NC
78 VDAR
79 VRAR
80 OUTR
1 GNDAR
2 VDX
3 XI
4 XO
5 GNDX
6 NC
7 GNDA1
8 A11
9 A01
10 NC
11 AOT1
12 NC
13 VDA12
14 AOT2
15 A02
16 NC
17 AI2
18 GNDA2
19 NC
20 VRO1
21 VR1
22 NC
23 VRO2
24 GNDA3
C722 0.1
C721 1
C720 0.1
C322 2200P
R319 270
DSP_S
C719 0.1
R320 270
DSP_C
C718 1
C324 2200P
R463 4.7K
R468 3.3K
C464 100P
C415 50V1
R263 4.7K
C215 50V1
R268 3.3K
C264 100P
C705 50V4.7
C706 10V220
C707 50V4.7
R427 1K
R706 47
X700 RSXZ36M8M01T
X700
C708 0.1
R707 220
R708 1M
C709 5P
C710 12P
C711 1
R433 270
C712 1
C429 2200P
R233 270
C714 1
C229 2200P
C713 1
C715 6.3V100P
C716 16V47
C717 6.3V100P
C430 50V4.7
R434 3.9K
C230 50V4.7
R234 3.9K
R469 2.2K
R311 22K
R312 27K
C312 33P
R334 68K
C316 100P
C329 1000P
C313 100P
R313 3K
C314 16V10
R333 8.2K
C346 0.01
IC305
M5228FPE1
QUAD OP AMP
SUBW
+VCC
CTR
RS
-VCC
LS
C244 16V10
R231 3K
R246 27K
C227 33P
C226 100P
C426 100P
C427 33P
R430 27K
R230 27K
C348 0.01
C444 16V10
R431 3K
R446 27K
R237 22K
C234 47P
C233 100P
R236 3.9K
C352 0.01
C232 16V10
C231 100P
R235 22K
IC306
KIA4558FEL
DUAL OP AMP
OUTA
-INA
+INA
VEE
VCC
OUTB
-INB
+INB
C432 16V10
C431 100P
R436 3.9K
R435 22K
C434 47P
R437 22K
C433 100P
C351 0.01
-7.5V
+7.5V

SCHEMATIC DIAGRAM - 18

—— : +B SIGNAL LINE
– – : -B SIGNAL LINE
⇨ : MAIN SIGNAL LINE

C MAIN CIRCUIT

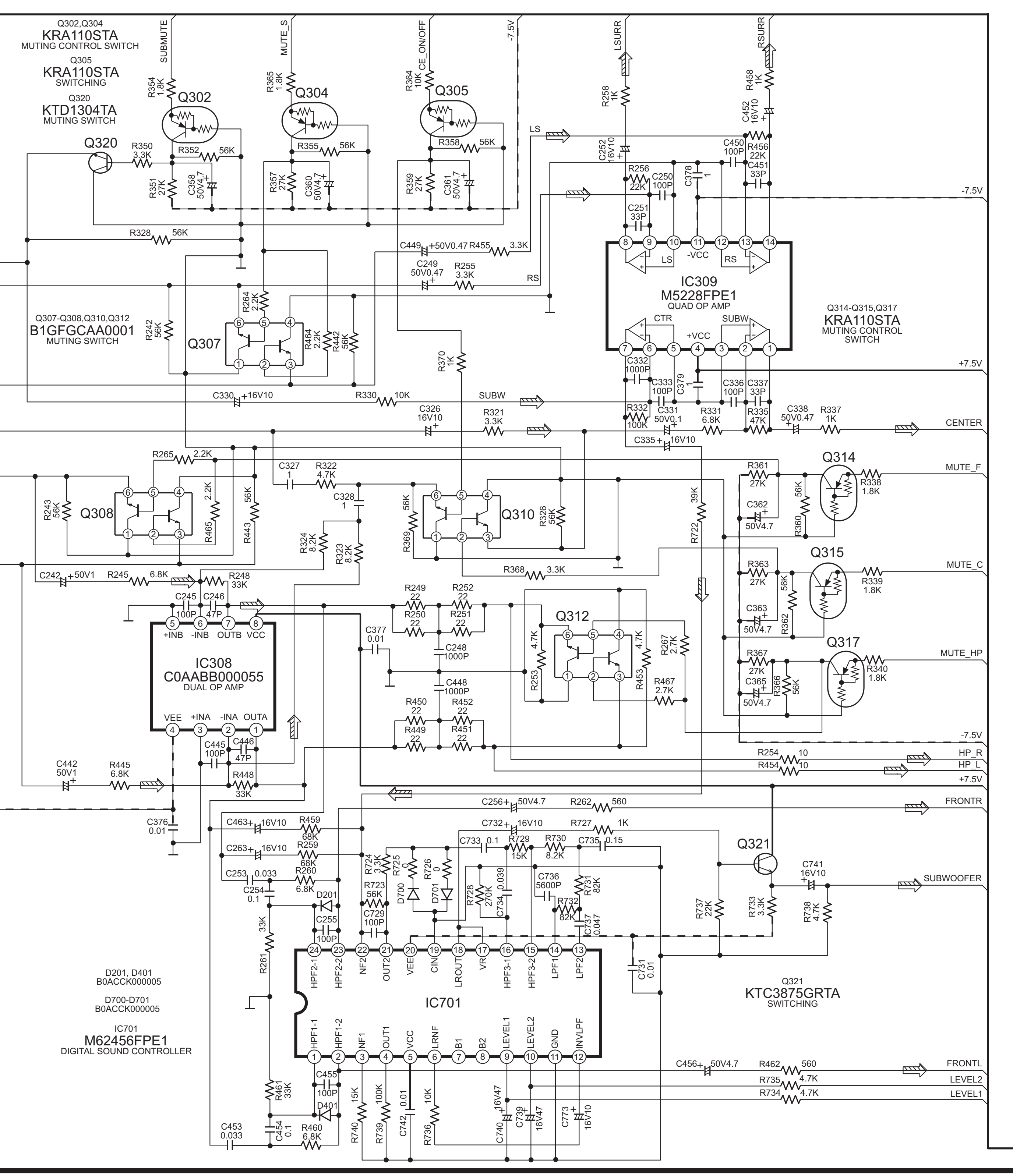


TO G HEADPHONE CIRCUIT(CN901) ON SCHEMATIC DIAGRAM-23
CN301
KEY1
STBY_LED
LED9V
CSM
DIGITAL
VRMSLED
VRSLED
GND1
HP_L
HP_GND
HP_R
Q802
Q802
KRC103STA
POWER CONTROL SWITCH
R840
1.8K
SYS6V
PCONT
VREF+
EECS
EECLK
C811
0.022
R846
22K
C825
330P
R847
22K
C824
330P
R848
4.7K
C812
330P
R343
47K
R344
47K
R345
47K
R346
390
C353
0.1
D301
D301
B0BC5R000009
MUX_CTRL
LEVEL1
LEVEL2
+7.5V
PORT 1
PORT 2
PORT 3
PORT 4
AVDD
SWIN
GNDS
SRIN
SLIN
GNDC
CIN
GNDR
RIN
GNDL
LIN
BYPASSR
BYPASSL
LTRE
LBASS3
LBASS2
LBASS1
AVDD
CLOCK
DATA
LATCH
DGND
AGND
SWOUT
SROUT
SLOUT
COUT
ROUT
LOUT
AVSS
CL1
CL2
CR1
CR2
RTRE
RBASS3
RBASS2
RBASS1
IC307
R347 4.7K
R348 2.2K
C354 47P
R349 2.2K
C355 47P
C317 1
R315 1K
C356 0.1
C265 1
R232 1K
C465 1
R432 1K
C318 1
R316 1K
R227 1K
C272 1
R269 2.2K
C472 1
DEC_FR
R238 1K
C260 1
R257 27K
DEC_FL
R438 1K
C460 1
R457 27K
C437 1000P
C438 0.015
C439
50V0.33
C325 1
R327 6.8K
C240 1
R240 1.5K
C440 1
R440 1.5K
C241 1
R241 2.7K
C441 1
R441 2.7K
C357 0.1
C457
16V10
C257
16V10
C237 1000P
C238 0.015
C239
50V0.33
IC307
C1BB00000782
6 CHANNEL ELECTRONIC VOLUME WITH TONE CTRL
-7.5V
VOL_LA
VOL_DA
VOL_CK
+7.5V
DISC1
DISC2
DISC3
DISC4
DISC5
JOG_B
JOG_A
VREF+
FL1
FL2
GND1
SW5V
-VP
KEY2
RMT
FLD_RST
FLD_CS
FLD_CK
FLD_DA
LED9V
CN302
TO F PANEL CIRCUIT (CN900) ON SCHEMATIC DIAGRAM-22

SCHEMATIC DIAGRAM - 19

—— : +B SIGNAL LINE   – – : -B SIGNAL LINE   ⇨ : MAIN SIGNAL LINE

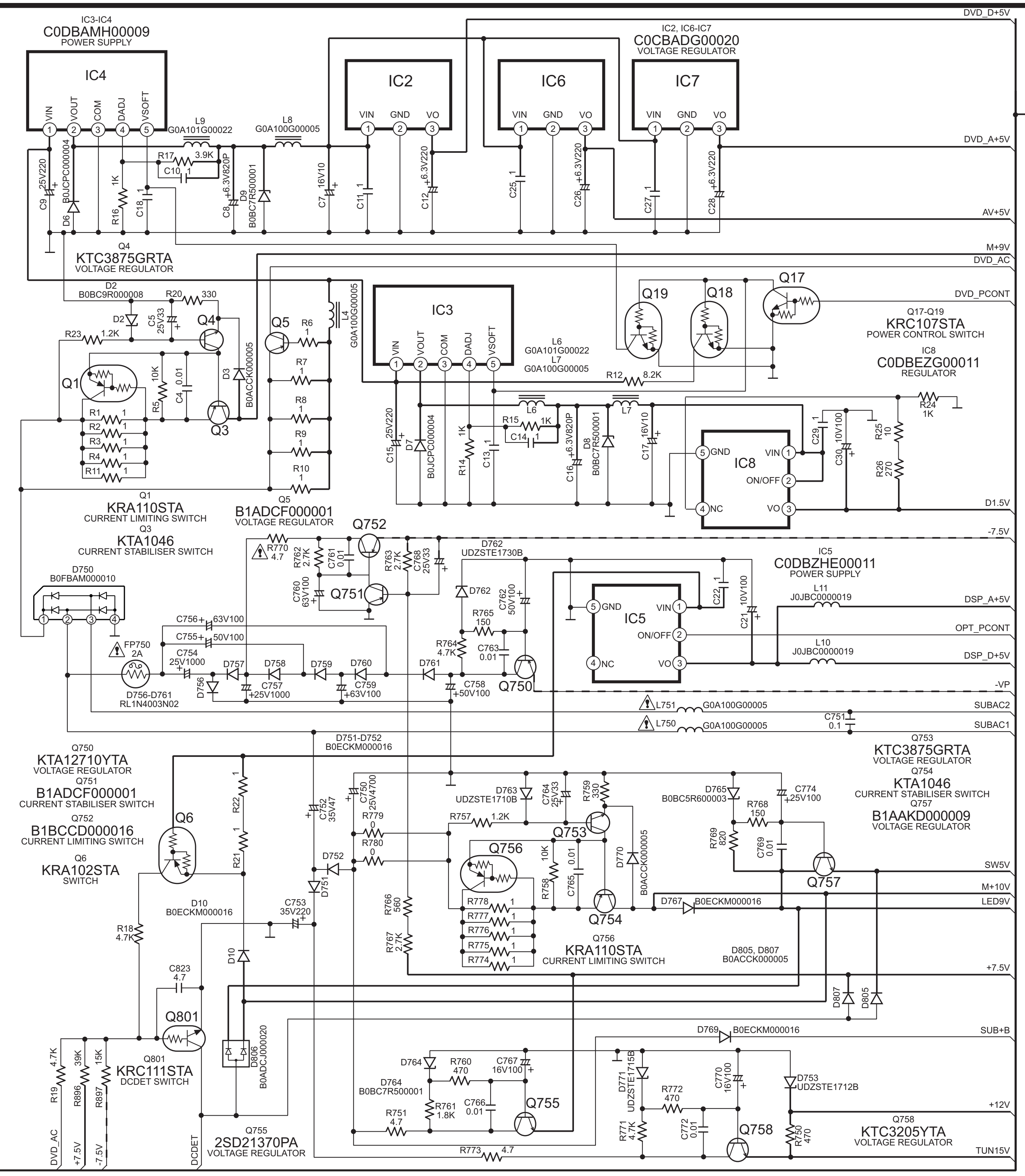
C MAIN CIRCUIT


Q302,Q304
KRA110STA
MUTING CONTROL SWITCH
Q305
KRA110STA
SWITCHING
Q320
KTD1304TA
MUTING SWITCH
SUBMUTE
MUTE_S
CE_ON/OFF
-7.5V
LSURR
RSURR
R354 1.8K
Q302
R365 1.8K
Q304
R364 10K
Q305
R258 1K
R458 1K
C452 16V10
Q320
R350 3.3K
R352 56K
R355 56K
R358 56K
LS
C450 100P
R456 22K
C451 33P
C252 16V10
R256 22K
C250 100P
C378 1
R351 27K
C358 50V4.7
R357 27K
C360 50V4.7
R359 27K
C361 50V4.7
C251 33P
R328 56K
C449 +50V0.47
R455 3.3K
C249 50V0.47
R255 3.3K
RS
IC309
M5228FPE1
QUAD OP AMP
-VCC
CTR
SUBW
+VCC
Q307-Q308,Q310,Q312
B1GFGCAA0001
MUTING SWITCH
R242 56K
R264 2.2K
Q307
R464 2.2K
R442 56K
R370 1K
Q314-Q315,Q317
KRA110STA
MUTING CONTROL SWITCH
C332 1000P
C333 100P
C379 1
C336 100P
C337 33P
+7.5V
C330 16V10
R330 10K
SUBW
C326 16V10
R321 3.3K
R332 100K
C331 50V0.1
R331 6.8K
R335 47K
C338 50V0.47
R337 1K
CENTER
C335 16V10
R265 2.2K
C327 1
R322 4.7K
Q314
R361 27K
R338 1.8K
MUTE_F
R243 56K
Q308
2.2K
56K
R465
R443
C328 1
56K
Q310
R326 56K
R369
R722 39K
C362 50V4.7
R360 56K
R324 8.2K
R323 8.2K
R368 3.3K
Q315
R363 27K
R339 1.8K
MUTE_C
C242 50V1
R245 6.8K
R248 33K
R249 22
R252 22
R250 22
R251 22
R362 56K
C363 50V4.7
C245 100P
C246 47P
Q312
4.7K
4.7K
R267 2.7K
Q317
R367 27K
R340 1.8K
MUTE_HP
+INB -INB OUTB VCC
IC308
C0AABB000055
DUAL OP AMP
C377 0.01
C248 1000P
R253
R453
C365 50V4.7
R366 56K
C448 1000P
R467 2.7K
VEE +INA -INA OUTA
R450 22
R452 22
R449 22
R451 22
-7.5V
C445 100P
C446 47P
R254 10
HP_R
R454 10
HP_L
C442 50V1
R445 6.8K
R448 33K
+7.5V
C256 50V4.7
R262 560
FRONTR
C376 0.01
C463 16V10
R459 68K
C732 16V10
R727 1K
C263 16V10
R259 68K
C733 0.1
R729 15K
R730 8.2K
C735 0.15
Q321
R260 6.8K
C253 0.033
R724 3.3K
R725 0
R726 0
C741 16V10
SUBWOOFER
C254 0.1
D201
R723 56K
D700
D701
R728 270K
C734 0.039
C736 5600P
R732 82K
R731 82K
R737 22K
R733 3.3K
R738 4.7K
C255 100P
C729 100P
C737 0.047
R261 33K
HPF2-1 HPF2-2 NF2 OUT2 VEE CIN LROUT VR HPF3-1 HPF3-2 LPF1 LPF2
C731 0.01
D201, D401
B0ACCK000005
D700-D701
B0ACCK000005
IC701
Q321
KTC3875GRTA
SWITCHING
IC701
M62456FPE1
DIGITAL SOUND CONTROLLER
HPF1-1 HPF1-2 NF1 OUT1 VCC LRNF B1 B2 LEVEL1 LEVEL2 GND INVLPF
C456 50V4.7
R462 560
FRONTL
C455 100P
R735 4.7K
LEVEL2
R734 4.7K
LEVEL1
R461 33K
D401
R740 15K
R739 100K
C742 0.01
R736 10K
C740 16V47
C739 16V47
C773 16V10
C453 0.033
C454 0.1
R460 6.8K

SCHEMATIC DIAGRAM - 20

—— : +B SIGNAL LINE   – – : -B SIGNAL LINE

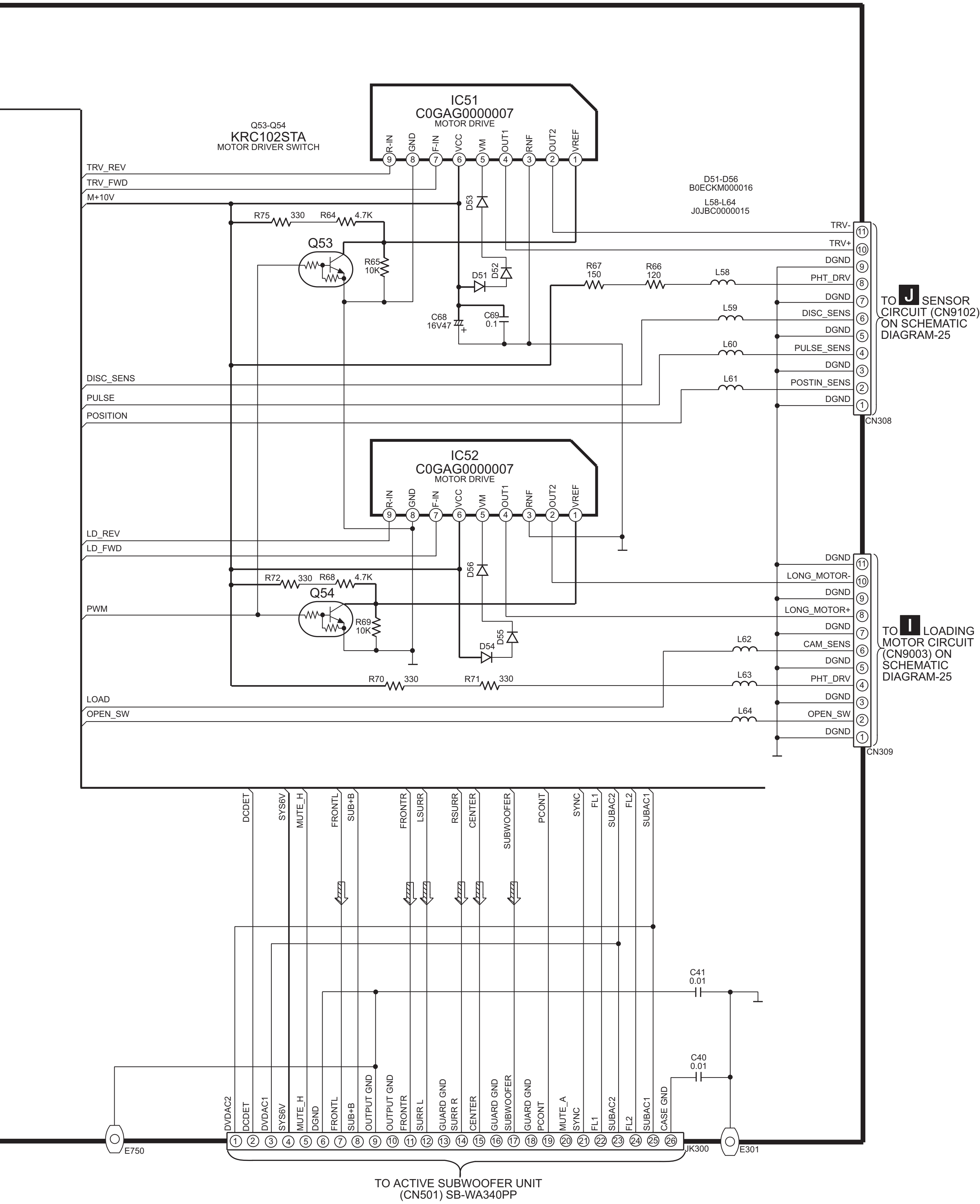
C MAIN CIRCUIT


IC3-IC4
C0DBAMH00009
POWER SUPPLY
IC4
VIN VOUT COM DADJ VSOFT
IC2, IC6-IC7
C0CBADG00020
VOLTAGE REGULATOR
IC2
IC6
IC7
VIN GND VO
DVD_D+5V
DVD_A+5V
AV+5V
M+9V
DVD_AC
DVD_PCONT
L9 G0A101G00022
L8 G0A100G00005
R17 3.9K
C10 1
C9 25V220
B0JCPC000004
D6
R16 1K
C18 1
C8 6.3V820P
D9 B0BC7R500001
C7 16V10
C11 1
C12 6.3V220
C25 1
C26 6.3V220
C27 1
C28 6.3V220
Q4
KTC3875GRTA
VOLTAGE REGULATOR
D2
B0BC9R000008
R20 330
C5 25V33
R23 1.2K
Q1
Q3
D3 B0ACCK000005
R5 10K
C4 0.01
R1 1 R2 1 R3 1 R4 1 R11 1
Q5
R6 1
R7 1 R8 1 R9 1 R10 1
L4 G0A100G00005
IC3
L6 G0A101G00022
L7 G0A100G00005
Q17
Q18
Q19
Q17-Q19
KRC107STA
POWER CONTROL SWITCH
IC8
C0DBEZG00011
REGULATOR
R12 8.2K
R24 1K
C15 25V220
D7 B0JCPC000004
R14 1K
R15 1K
C14 1
C13 1
C16 6.3V820P
D8 B0BC7R500001
C17 16V10
C29 1
C30 10V100
R25 10
R26 270
GND VIN ON/OFF NC VO
D1.5V
Q1
KRA110STA
CURRENT LIMITING SWITCH
Q3
KTA1046
CURRENT STABILISER SWITCH
Q5
B1ADCF000001
VOLTAGE REGULATOR
-7.5V
Q752
Q751
R770 4.7
R762 2.7K
C761 0.01
R763 2.7K
C768 25V33
C760 63V100
D762
UDZSTE1730B
D762
R765 150
C762 50V100
R764 4.7K
C763 0.01
Q750
IC5
C0DBZHE00011
POWER SUPPLY
IC5
C22 1
C21 10V100
L11 J0JBC0000019
L10 J0JBC0000019
DSP_A+5V
OPT_PCONT
DSP_D+5V
-VP
D750
B0FBAM000010
C756 63V100
C755 50V100
C754 25V1000
FP750 2A
D757 D758 D759 D760 D761
D756
C757 25V1000
C759 63V100
C758 50V100
D756-D761
RL1N4003N02
L751 G0A100G00005
L750 G0A100G00005
C751 0.1
SUBAC2
SUBAC1
D751-D752
B0ECKM000016
Q750
KTA12710YTA
VOLTAGE REGULATOR
Q751
B1ADCF000001
CURRENT STABILISER SWITCH
Q752
B1BCCD000016
CURRENT LIMITING SWITCH
Q6
KRA102STA
SWITCH
Q6
R22 1
R21 1
R18 4.7K
D10
B0ECKM000016
C752 35V47
C750 25V4700
R779 0
R780 0
D752
D751
C753 35V220
D10
C823 4.7
Q801
KRC111STA
DCDET SWITCH
D806 B0ADCJ000020
R19 4.7K
R896 39K
R897 15K
DVD_AC
+7.5V
-7.5V
DCDET
Q753
KTC3875GRTA
VOLTAGE REGULATOR
Q754
KTA1046
CURRENT STABILISER SWITCH
Q757
B1AAKD000009
VOLTAGE REGULATOR
D763
UDZSTE1710B
C764 25V33
R759 330
D765
B0BC5R600003
C774 25V100
R768 150
R769 820
C769 0.01
R757 1.2K
Q753
Q756
R758 10K
C765 0.01
D770 B0ACCK000005
Q757
SW5V
M+10V
LED9V
D767 B0ECKM000016
R766 560
R767 2.7K
R778 1 R777 1 R776 1 R775 1 R774 1
Q754
Q756
KRA110STA
CURRENT LIMITING SWITCH
D805, D807
B0ACCK000005
+7.5V
D807
D805
D769 B0ECKM000016
SUB+B
D764
R760 470
C767 16V100
D764
B0BC7R500001
R761 1.8K
C766 0.01
Q755
R751 4.7
D771 UDZSTE1715B
R772 470
C770 16V100
D753 UDZSTE1712B
+12V
R771 4.7K
C772 0.01
Q758
R750 470
Q758
KTC3205YTA
VOLTAGE REGULATOR
Q755
2SD21370PA
VOLTAGE REGULATOR
R773 4.7
TUN15V

SCHEMATIC DIAGRAM - 21

—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

C MAIN CIRCUIT

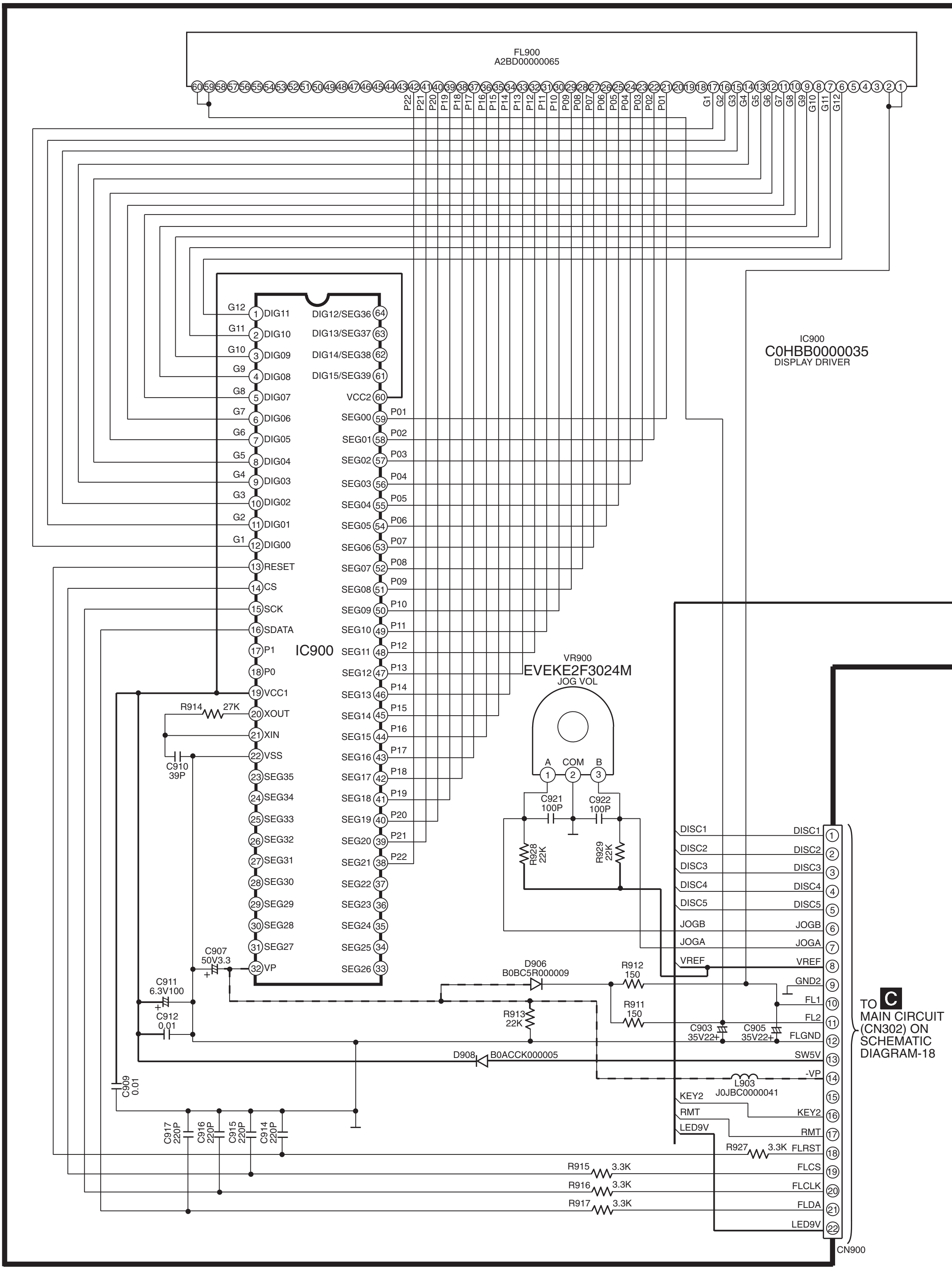


IC51
C0GAG0000007
MOTOR DRIVE
R-IN 9
GND 8
F-IN 7
VCC 6
VM 5
OUT1 4
RNF 3
OUT2 2
VREF 1
Q53-Q54
KRC102STA
MOTOR DRIVER SWITCH
TRV_REV
TRV_FWD
M+10V
R75 330
R64 4.7K
Q53
R65 10K
D53
D52
D51
C68 16V47
C69 0.1
D51-D56
B0ECKM000016
L58-L64
J0JBC0000015
R67 150
R66 120
L58
L59
L60
L61
DISC_SENS
PULSE
POSITION
TRV- 11
TRV+ 10
DGND 9
PHT_DRV 8
DGND 7
DISC_SENS 6
DGND 5
PULSE_SENS 4
DGND 3
POSTIN_SENS 2
DGND 1
CN308
TO J SENSOR CIRCUIT (CN9102) ON SCHEMATIC DIAGRAM-25
IC52
C0GAG0000007
MOTOR DRIVE
R-IN 9
GND 8
F-IN 7
VCC 6
VM 5
OUT1 4
RNF 3
OUT2 2
VREF 1
LD_REV
LD_FWD
PWM
R72 330
R68 4.7K
Q54
R69 10K
D56
D55
D54
R70 330
R71 330
LOAD
OPEN_SW
L62
L63
L64
DGND 11
LONG_MOTOR- 10
DGND 9
LONG_MOTOR+ 8
DGND 7
CAM_SENS 6
DGND 5
PHT_DRV 4
DGND 3
OPEN_SW 2
DGND 1
CN309
TO I LOADING MOTOR CIRCUIT (CN9003) ON SCHEMATIC DIAGRAM-25
DCDET
SYS6V
MUTE_H
FRONTL
SUB+B
FRONTR
LSURR
RSURR
CENTER
SUBWOOFER
PCONT
SYNC
FL1
SUBAC2
FL2
SUBAC1
C41 0.01
C40 0.01
DVDAC2 1
DCDET 2
DVDAC1 3
SYS6V 4
MUTE_H 5
DGND 6
FRONTL 7
SUB+B 8
OUTPUT GND 9
OUTPUT GND 10
FRONTR 11
SURR L 12
GUARD GND 13
SURR R 14
CENTER 15
GUARD GND 16
SUBWOOFER 17
GUARD GND 18
PCONT 19
MUTE_A 20
SYNC 21
FL1 22
SUBAC2 23
FL2 24
SUBAC1 25
CASE GND 26
JK300
E750
E301
TO ACTIVE SUBWOOFER UNIT (CN501) SB-WA340PP

SCHEMATIC DIAGRAM - 22

F PANEL CIRCUIT

—— : +B SIGNAL LINE — — : -B SIGNAL LINE

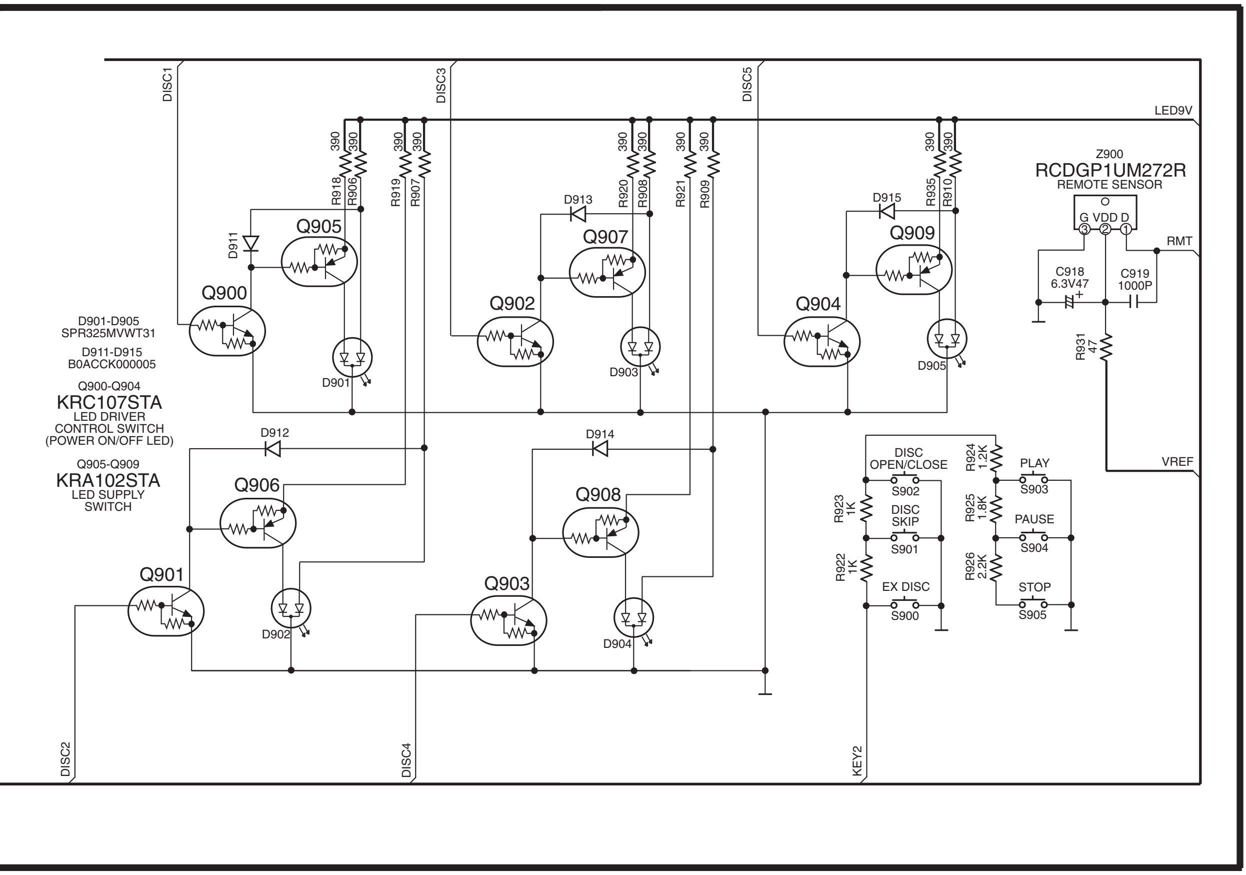

FL900
A2BD00000065
60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
P22 P21 P20 P19 P18 P17 P16 P15 P14 P13 P12 P11 P10 P09 P08 P07 P06 P05 P04 P03 P02 P01
G1 G2 G3 G4 G5 G6 G7 G8 G9 G10 G11 G12
IC900
C0HBB0000035
DISPLAY DRIVER
G12 1 DIG11
G11 2 DIG10
G10 3 DIG09
G9 4 DIG08
G8 5 DIG07
G7 6 DIG06
G6 7 DIG05
G5 8 DIG04
G4 9 DIG03
G3 10 DIG02
G2 11 DIG01
G1 12 DIG00
13 RESET
14 CS
15 SCK
16 SDATA
17 P1
18 P0
19 VCC1
20 XOUT
21 XIN
22 VSS
23 SEG35
24 SEG34
25 SEG33
26 SEG32
27 SEG31
28 SEG30
29 SEG29
30 SEG28
31 SEG27
32 VP
DIG12/SEG36 64
DIG13/SEG37 63
DIG14/SEG38 62
DIG15/SEG39 61
VCC2 60
SEG00 59 P01
SEG01 58 P02
SEG02 57 P03
SEG03 56 P04
SEG04 55 P05
SEG05 54 P06
SEG06 53 P07
SEG07 52 P08
SEG08 51 P09
SEG09 50 P10
SEG10 49 P11
SEG11 48 P12
SEG12 47 P13
SEG13 46 P14
SEG14 45 P15
SEG15 44 P16
SEG16 43 P17
SEG17 42 P18
SEG18 41 P19
SEG19 40 P20
SEG20 39 P21
SEG21 38 P22
SEG22 37
SEG23 36
SEG24 35
SEG25 34
SEG26 33
IC900
R914 27K
C910 39P
C907 50V3.3
C911 6.3V100
C912 0.01
C909 0.01
C917 220P
C916 220P
C915 220P
C914 220P
VR900
EVEKE2F3024M
JOG VOL
A COM B
1 2 3
C921 100P
C922 100P
R928 22K
R929 22K
D906
B0BC5R000009
R912 150
R911 150
R913 22K
D908
B0ACCK000005
C903 35V22
C905 35V22
L903
J0JBC0000041
R927 3.3K
R915 3.3K
R916 3.3K
R917 3.3K
DISC1
DISC2
DISC3
DISC4
DISC5
JOGB
JOGA
VREF
KEY2
RMT
LED9V
DISC1 1
DISC2 2
DISC3 3
DISC4 4
DISC5 5
JOGB 6
JOGA 7
VREF 8
GND2 9
FL1 10
FL2 11
FLGND 12
SW5V 13
-VP 14
15
KEY2 16
RMT 17
FLRST 18
FLCS 19
FLCLK 20
FLDA 21
LED9V 22
CN900
TO C MAIN CIRCUIT (CN302) ON SCHEMATIC DIAGRAM-18

SCHEMATIC DIAGRAM - 23

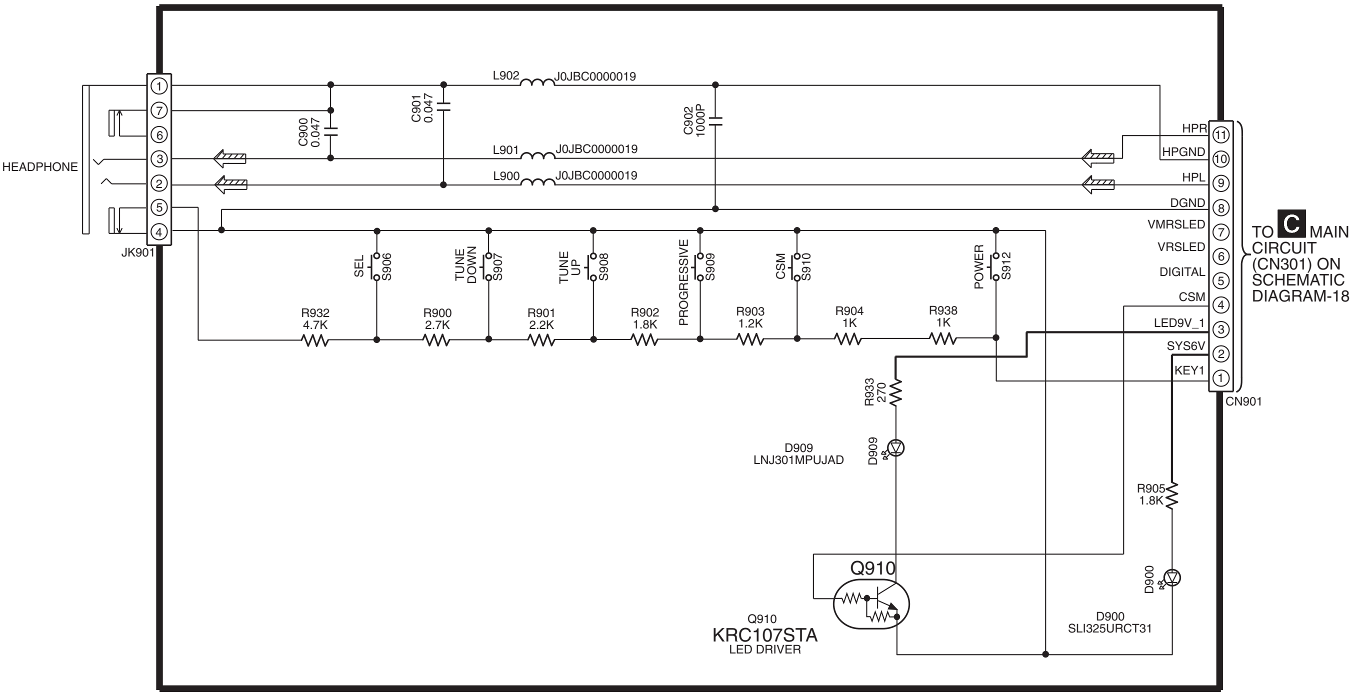
F PANEL CIRCUIT

—— : +B SIGNAL LINE

⇨ : MAIN SIGNAL LINE


DISC1
DISC3
DISC5
LED9V
390
R918
R906
R919
R907
R920
R908
R921
R909
R935
R910
D911
D913
D915
Q900
Q905
Q902
Q907
Q904
Q909
D901
D903
D905
Z900
RCDGP1UM272R
REMOTE SENSOR
G VDD D
③ ② ①
RMT
C918
6.3V47
C919
1000P
R931
47
VREF
D901-D905
SPR325MVWT31
D911-D915
B0ACCK000005
Q900-Q904
KRC107STA
LED DRIVER
CONTROL SWITCH
(POWER ON/OFF LED)
Q905-Q909
KRA102STA
LED SUPPLY
SWITCH
D912
D914
Q906
Q908
Q901
Q903
D902
D904
DISC
OPEN/CLOSE
S902
R924
1.2K
PLAY
S903
R923
1K
DISC
SKIP
S901
R925
1.8K
PAUSE
S904
R922
1K
R926
2.2K
EX DISC
S900
STOP
S905
DISC2
DISC4
KEY2

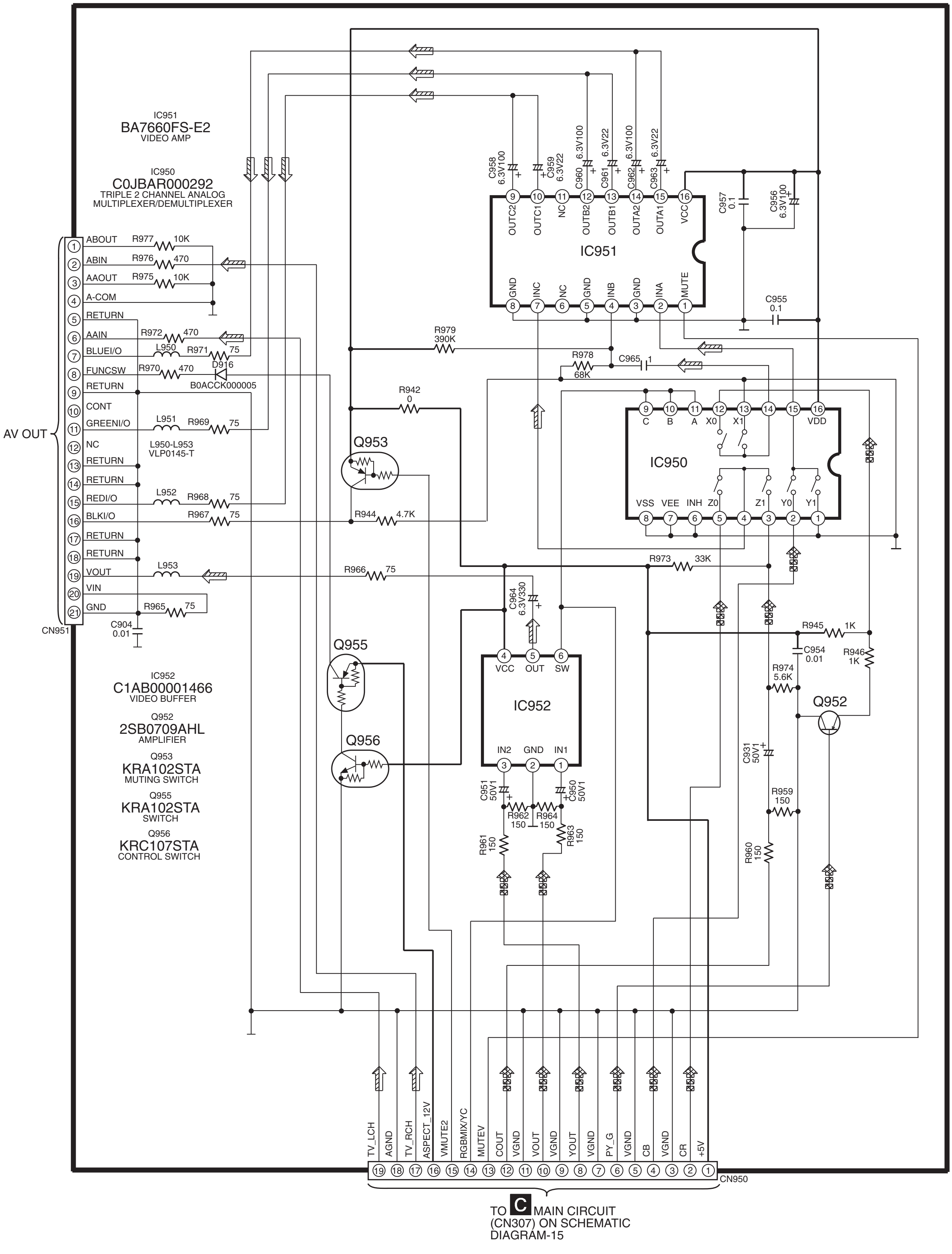
G HEADPHONE CIRCUIT


HEADPHONE
JK901
① ⑦ ⑥ ③ ② ⑤ ④
C900
0.047
C901
0.047
L902
J0JBC0000019
C902
1000P
L901
J0JBC0000019
L900
J0JBC0000019
SEL
S906
TUNE
DOWN
S907
TUNE
UP
S908
PROGRESSIVE
S909
CSM
S910
POWER
S912
R932
4.7K
R900
2.7K
R901
2.2K
R902
1.8K
R903
1.2K
R904
1K
R938
1K
R933
270
D909
LNJ301MPUJAD
R905
1.8K
Q910
Q910
KRC107STA
LED DRIVER
D900
SLI325URCT31
HPR ⑪
HPGND ⑩
HPL ⑨
DGND ⑧
VMRSLED ⑦
VRSLED ⑥
DIGITAL ⑤
CSM ④
LED9V_1 ③
SYS6V ②
KEY1 ①
CN901
TO C MAIN
CIRCUIT
(CN301) ON
SCHEMATIC
DIAGRAM-18

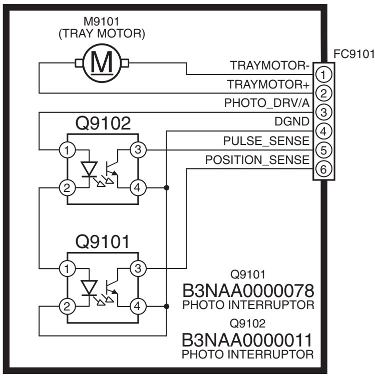
SCHEMATIC DIAGRAM - 24

—— : +B SIGNAL LINE — — : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

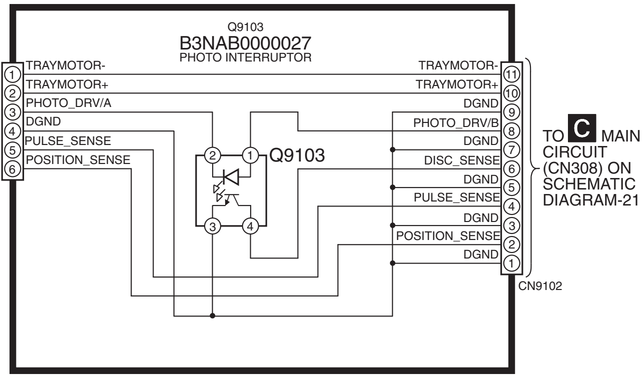
L SCART CIRCUIT


IC951
BA7660FS-E2
VIDEO AMP
IC950
C0JBAR000292
TRIPLE 2 CHANNEL ANALOG
MULTIPLEXER/DEMULTIPLEXER
IC952
C1AB00001466
VIDEO BUFFER
Q952
2SB0709AHL
AMPLIFIER
Q953
KRA102STA
MUTING SWITCH
Q955
KRA102STA
SWITCH
Q956
KRC107STA
CONTROL SWITCH
AV OUT
CN951
ABOUT
ABIN
AAOUT
A-COM
RETURN
AAIN
BLUEI/O
FUNCSW
RETURN
CONT
GREENI/O
NC
RETURN
RETURN
REDI/O
BLKI/O
RETURN
RETURN
VOUT
VIN
GND
R977 10K
R976 470
R975 10K
R972 470
L950
R971 75
R970 470
D916
B0ACCK000005
L951
R969 75
L950-L953
VLP0145-T
L952
R968 75
R967 75
L953
R965 75
C904 0.01
R979 390K
R942 0
R944 4.7K
R966 75
R978 68K
C965 1
C958 6.3V100
C959 6.3V22
C960 6.3V100
C961 6.3V22
C962 6.3V100
C963 6.3V22
C957 0.1
C956 6.3V100
C955 0.1
IC951
OUTC2
OUTC1
NC
OUTB2
OUTB1
OUTA2
OUTA1
VCC
GND
INC
NC
GND
INB
GND
INA
MUTE
IC950
C
B
A
X0
X1
VDD
VSS
VEE
INH
Z0
Z1
Y0
Y1
Q953
Q955
Q956
Q952
R973 33K
R945 1K
C954 0.01
R946 1K
R974 5.6K
C931 50V1
R959 150
R960 150
C964 6.3V330
IC952
VCC
OUT
SW
IN2
GND
IN1
C951 50V1
C950 50V1
R962 150
R964 150
R961 150
R963 150
TV_LCH
AGND
TV_RCH
ASPECT_12V
VMUTE2
RGBMIX/YC
MUTEV
COUT
VGND
VOUT
VGND
YOUT
VGND
PY_G
VGND
CB
VGND
CR
+5V
CN950
TO C MAIN CIRCUIT
(CN307) ON SCHEMATIC
DIAGRAM-15

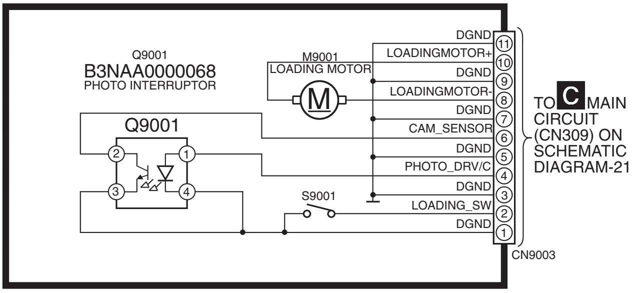
H TRAY MOTOR CIRCUIT

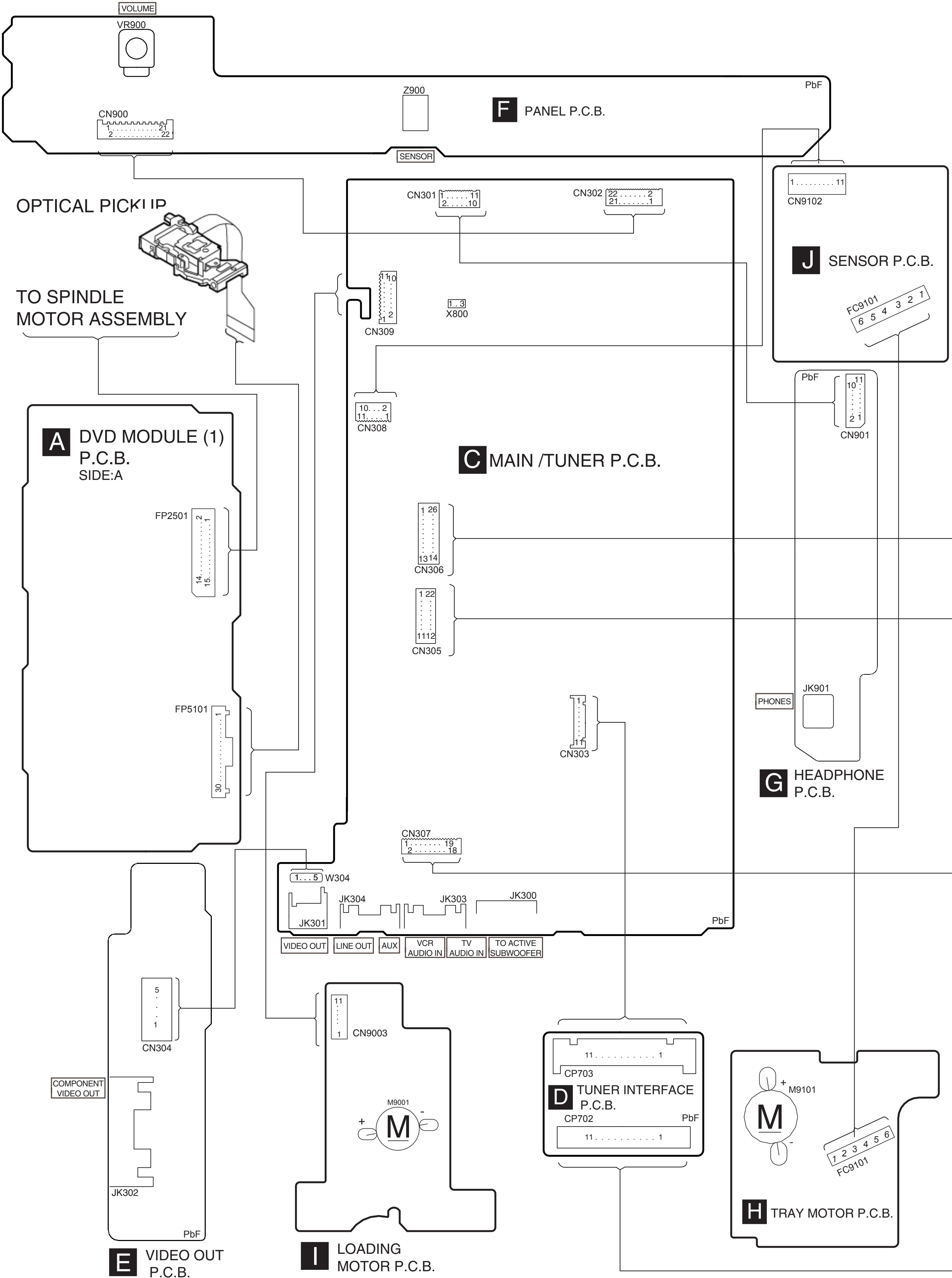

M9101
(TRAY MOTOR)
M
FC9101
TRAYMOTOR-
TRAYMOTOR+
PHOTO_DRV/A
DGND
PULSE_SENSE
POSITION_SENSE
Q9102
Q9101
Q9101
B3NAA0000078
PHOTO INTERRUPTOR
Q9102
B3NAA0000011
PHOTO INTERRUPTOR

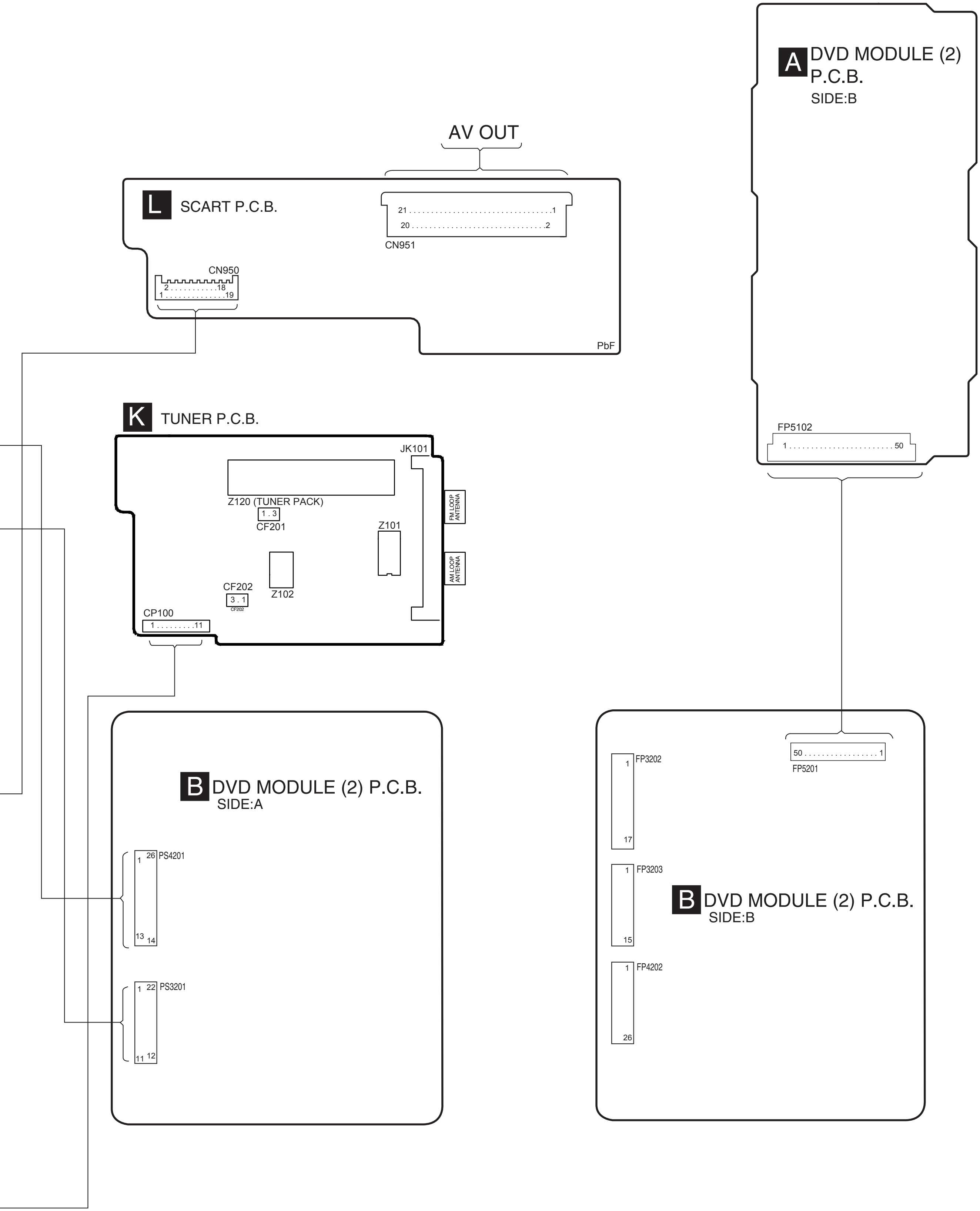
J SENSOR CIRCUIT

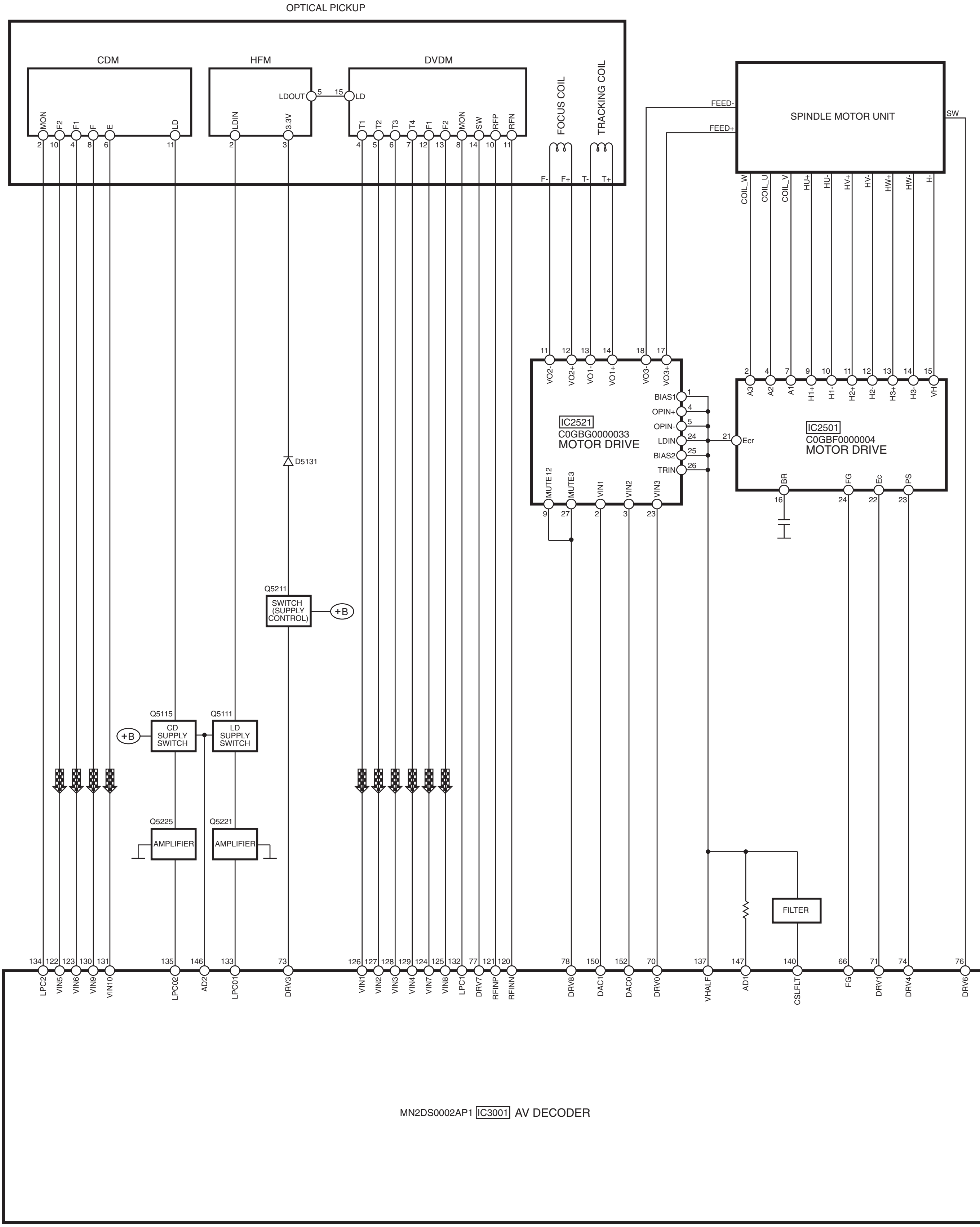

Q9103
B3NAB0000027
PHOTO INTERRUPTOR
TRAYMOTOR-
TRAYMOTOR+
PHOTO_DRV/A
DGND
PULSE_SENSE
POSITION_SENSE
Q9103
TRAYMOTOR-
TRAYMOTOR+
DGND
PHOTO_DRV/B
DGND
DISC_SENSE
DGND
PULSE_SENSE
DGND
POSITION_SENSE
DGND
CN9102
TO C MAIN CIRCUIT (CN308) ON SCHEMATIC DIAGRAM-21

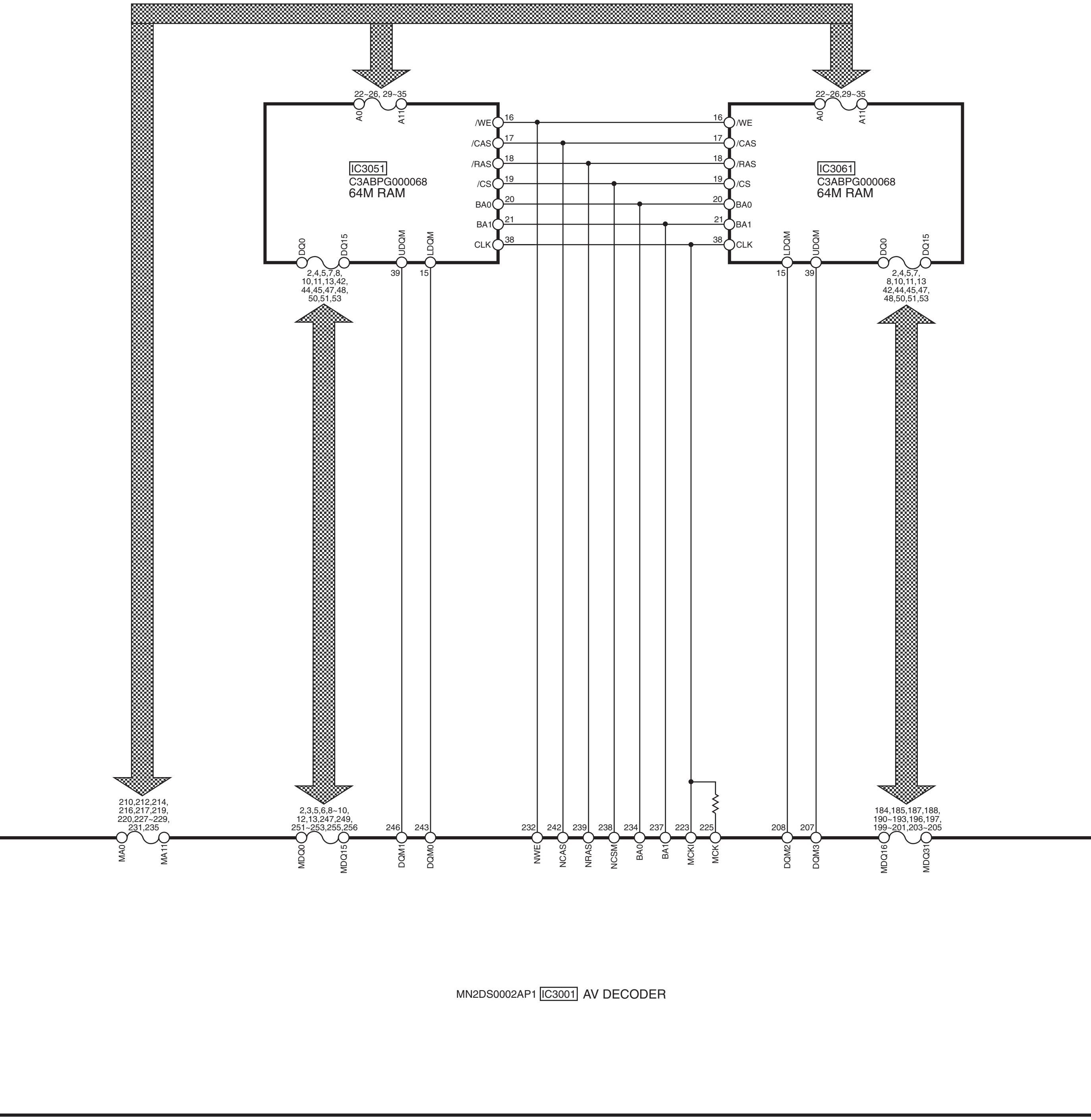
I LOADING MOTOR CIRCUIT

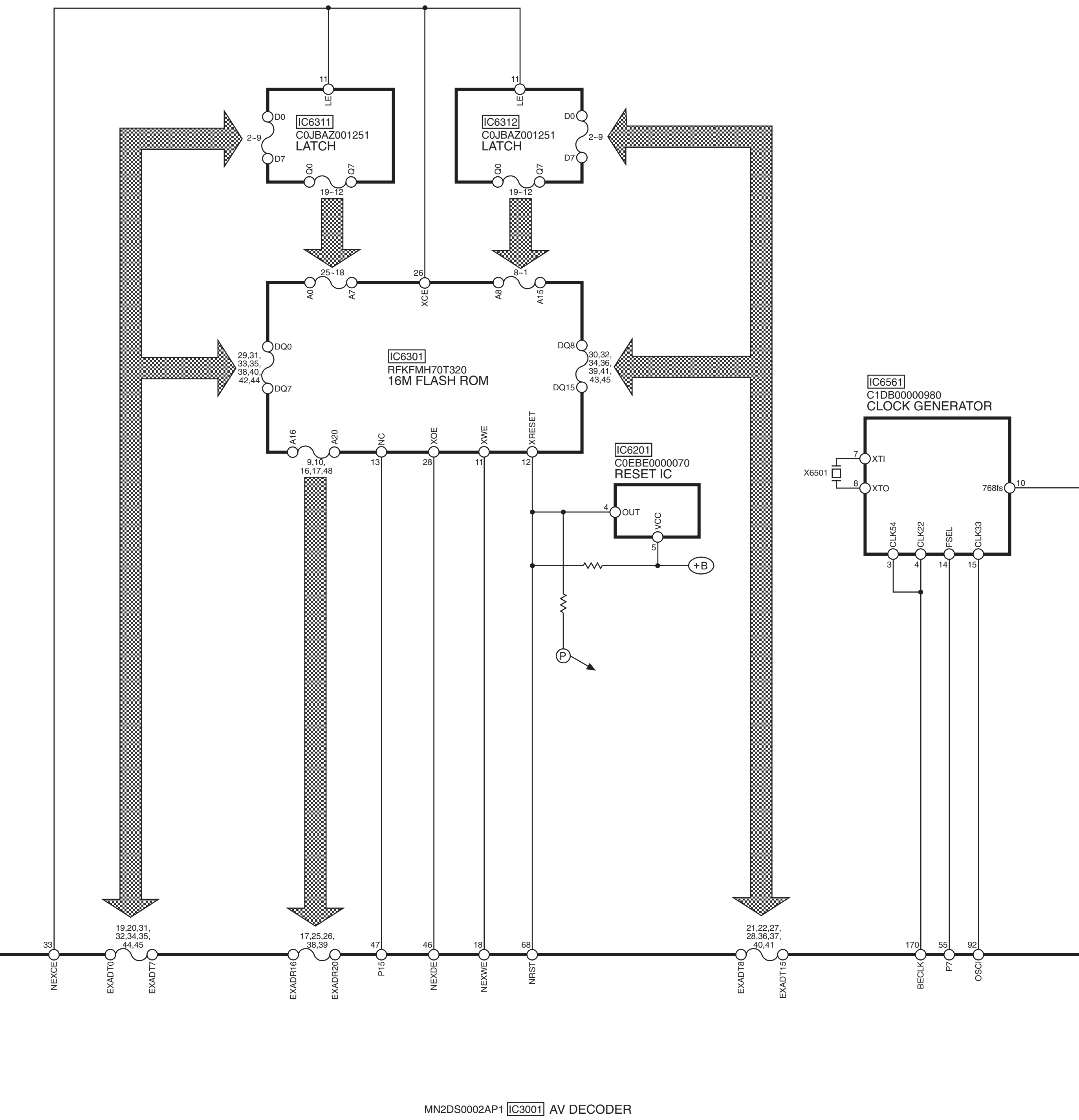

Q9001
B3NAA0000068
PHOTO INTERRUPTOR
M9001
LOADING MOTOR
M
Q9001
S9001
DGND
LOADINGMOTOR+
DGND
LOADINGMOTOR-
DGND
CAM_SENSOR
DGND
PHOTO_DRV/C
DGND
LOADING_SW
DGND
CN9003
TO C MAIN CIRCUIT (CN309) ON SCHEMATIC DIAGRAM-21

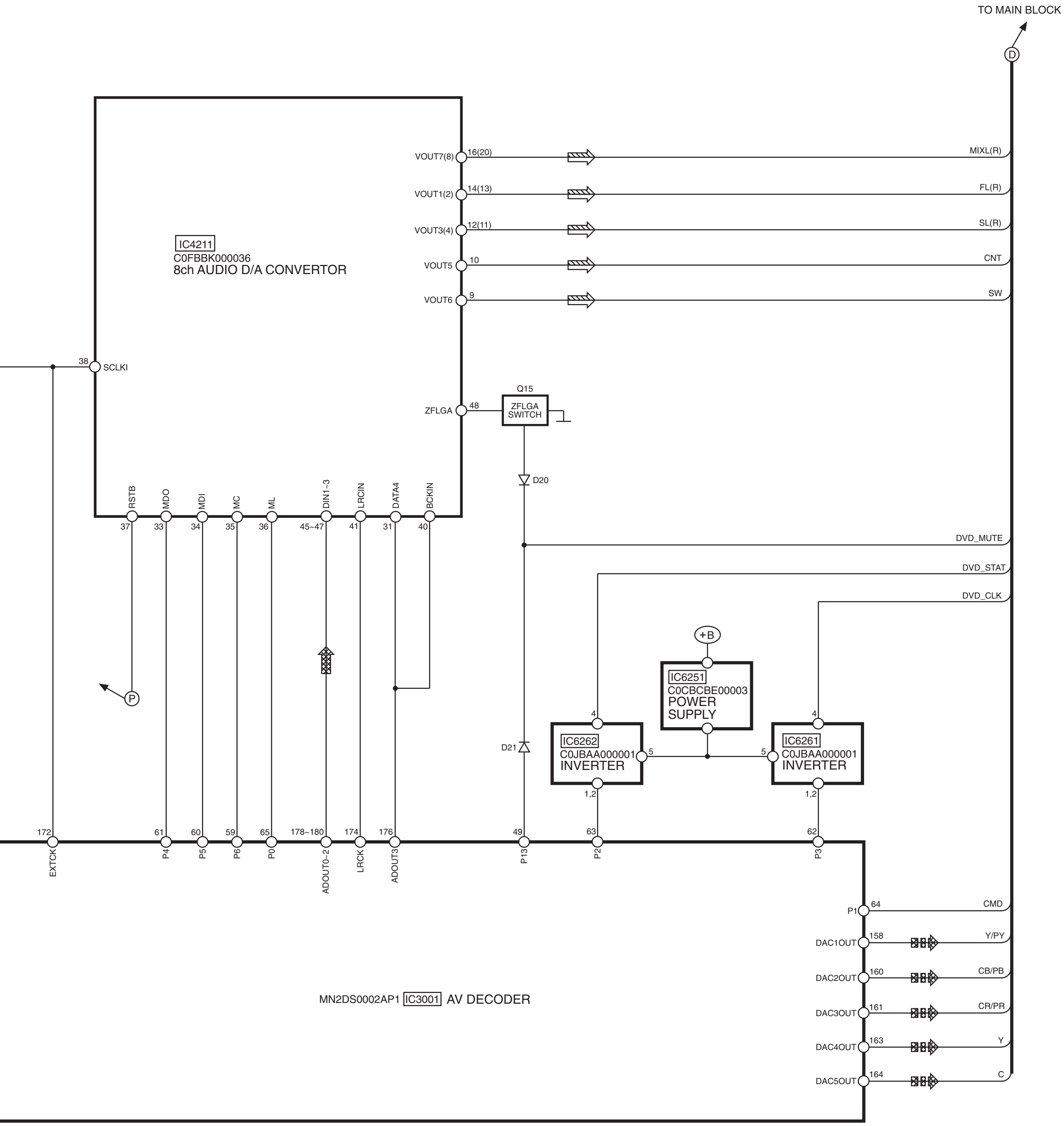

VOLUME
VR900
Z900
F PANEL P.C.B.
PbF
CN900
1 21
2 22
SENSOR
OPTICAL PICKUP
TO SPINDLE
MOTOR ASSEMBLY
CN301
1 11
2 10
CN302
22 2
21 1
CN9102
1 11
J SENSOR P.C.B.
FC9101
1 2 3 4 5 6
CN309
11 10
1 2
1 3
X800
CN308
10 2
11 1
PbF
CN901
10 11
2 1
A DVD MODULE (1)
P.C.B.
SIDE:A
FP2501
2 1
14 15
C MAIN /TUNER P.C.B.
CN306
1 26
13 14
CN305
1 22
11 12
FP5101
1
30
JK901
PHONES
CN303
1
11
G HEADPHONE
P.C.B.
CN307
1 19
2 18
1 . . . 5
W304
JK304
JK303
JK300
JK301
PbF
VIDEO OUT
LINE OUT
AUX
VCR
AUDIO IN
TV
AUDIO IN
TO ACTIVE
SUBWOOFER
5
1
CN304
11
1
CN9003
M9001
+
-
M
11 1
CP703
D TUNER INTERFACE
P.C.B.
CP702
PbF
11 1
M9101
+
M
-
FC9101
1 2 3 4 5 6
COMPONENT
VIDEO OUT
JK302
PbF
E VIDEO OUT
P.C.B.
I LOADING
MOTOR P.C.B.
H TRAY MOTOR P.C.B.

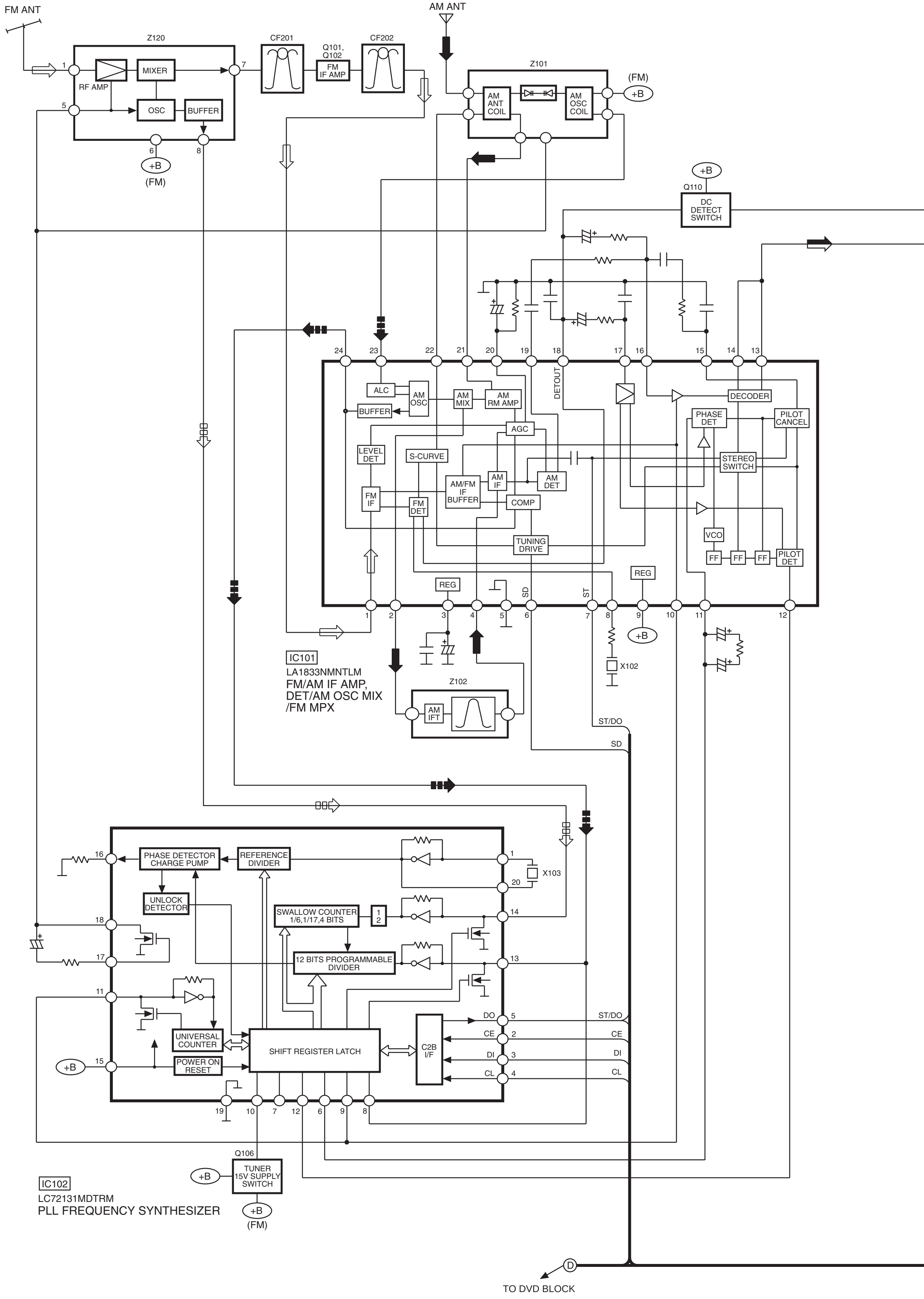

A DVD MODULE (2) P.C.B.
SIDE:B
AV OUT
L SCART P.C.B.
21 1
20 2
CN951
CN950
2 18
1 19
PbF
FP5102
1 50
K TUNER P.C.B.
JK101
Z120 (TUNER PACK)
1 . 3
CF201
Z101
FM LOOP ANTENNA
AM LOOP ANTENNA
CF202
3 . 1
CF202
Z102
CP100
1 11
B DVD MODULE (2) P.C.B.
SIDE:A
1
26
PS4201
13
14
1
22
PS3201
11
12
50 1
FP5201
1
FP3202
17
1
FP3203
15
B DVD MODULE (2) P.C.B.
SIDE:B
1
FP4202
26

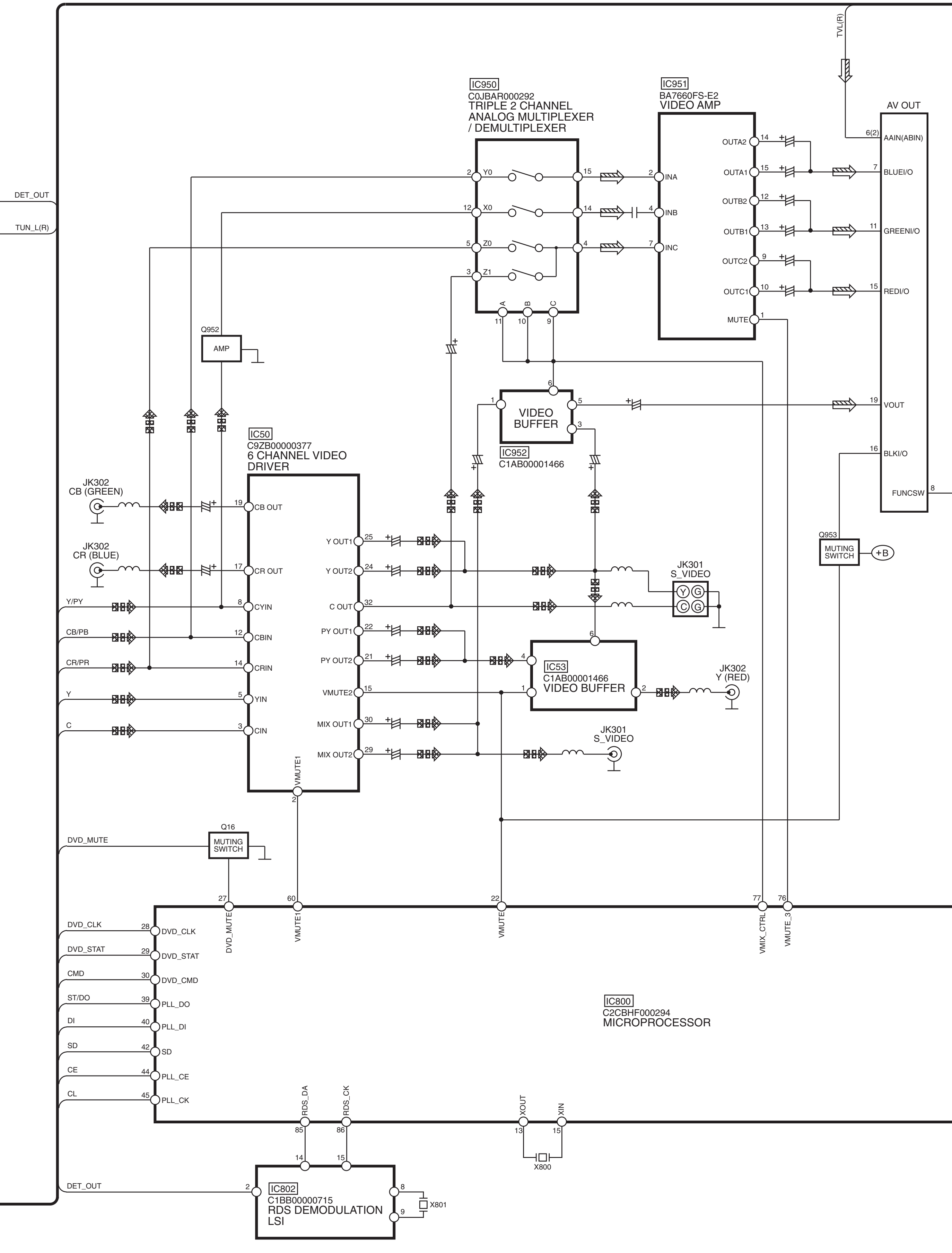

OPTICAL PICKUP
CDM
MON
F2
F1
F
E
LD
HFM
LDIN
3.3V
LDOUT
DVDM
LD
T1
T2
T3
T4
F1
F2
MON
SW
RFP
RFN
FOCUS COIL
TRACKING COIL
F-
F+
T-
T+
SPINDLE MOTOR UNIT
FEED-
FEED+
SW
COIL_W
COIL_U
COIL_V
HU+
HU-
HV+
HV-
HW+
HW-
H-
IC2521
C0GBG0000033
MOTOR DRIVE
VO2-
VO2+
VO1-
VO1+
VO3-
VO3+
BIAS1
OPIN+
OPIN-
LDIN
BIAS2
TRIN
MUTE12
MUTE3
VIN1
VIN2
VIN3
IC2501
C0GBF0000004
MOTOR DRIVE
A3
A2
A1
H1+
H1-
H2+
H2-
H3+
H3-
VH
Ecr
BR
FG
Ec
PS
D5131
Q5211
SWITCH (SUPPLY CONTROL)
+B
Q5115
CD SUPPLY SWITCH
Q5111
LD SUPPLY SWITCH
Q5225
AMPLIFIER
Q5221
AMPLIFIER
FILTER
LPC2
VIN5
VIN6
VIN9
VIN10
LPC02
AD2
LPC01
DRV3
VIN1
VIN2
VIN3
VIN4
VIN7
VIN8
LPC1
DRV7
RFINP
RFINN
DRV8
DAC1
DAC0
DRV0
VHALF
AD1
CSLFLT
FG
DRV1
DRV4
DRV6
134
122
123
130
131
135
146
133
73
126
127
128
129
124
125
132
77
121
120
78
150
152
70
137
147
140
66
71
74
76
MN2DS0002AP1 IC3001 AV DECODER

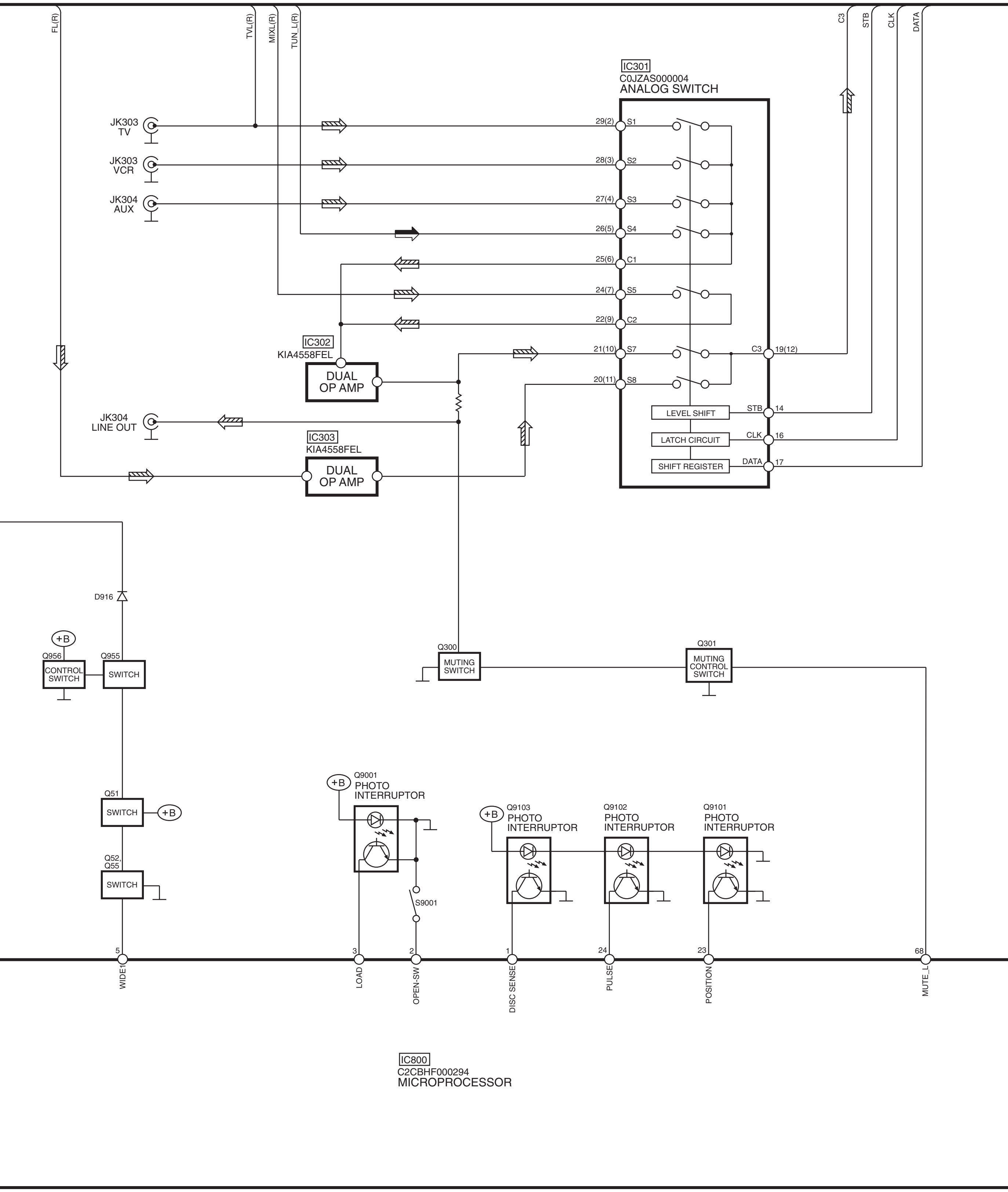

22~26, 29~35
A0
A11
IC3051
C3ABPG000068
64M RAM
/WE 16
/CAS 17
/RAS 18
/CS 19
BA0 20
BA1 21
CLK 38
DQ0
DQ15
UDQM
LDQM
2,4,5,7,8,
10,11,13,42,
44,45,47,48,
50,51,53
39
15
22~26,29~35
A0
A11
IC3061
C3ABPG000068
64M RAM
16 /WE
17 /CAS
18 /RAS
19 /CS
20 BA0
21 BA1
38 CLK
LDQM
UDQM
DQ0
DQ15
15
39
2,4,5,7,
8,10,11,13
42,44,45,47,
48,50,51,53
210,212,214,
216,217,219,
220,227~229,
231,235
MA0
MA11
2,3,5,6,8~10,
12,13,247,249,
251~253,255,256
MDQ0
MDQ15
246 DQM1
243 DQM0
232 NWE
242 NCAS
239 NRAS
238 NCSM
234 BA0
237 BA1
223 MCKI
225 MCK
208 DQM2
207 DQM3
184,185,187,188,
190~193,196,197,
199~201,203~205
MDQ16
MDQ31
MN2DS0002AP1 IC3001 AV DECODER

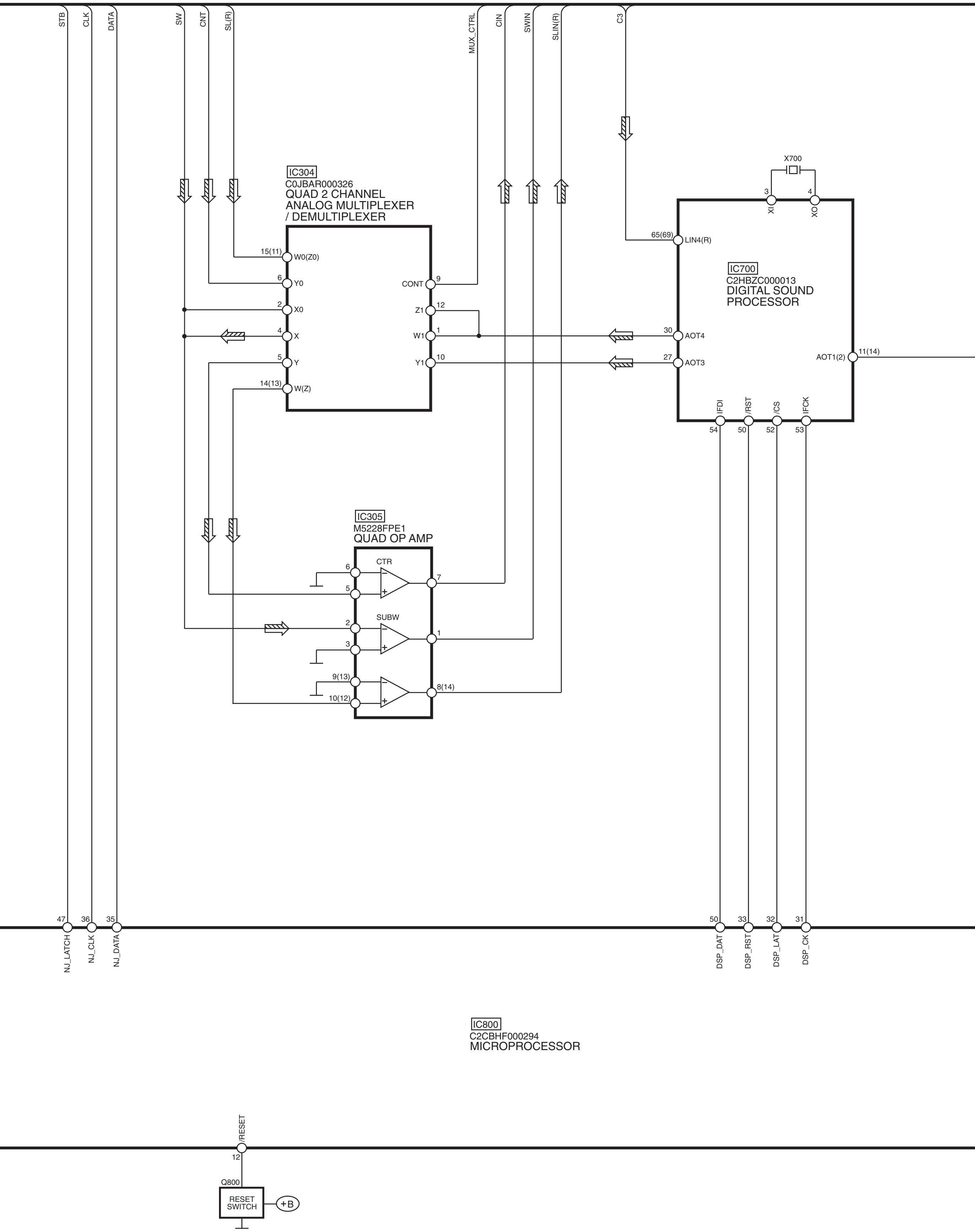

IC6311
C0JBAZ001251
LATCH
11
LE
D0
2~9
D7
Q0
Q7
19~12
IC6312
C0JBAZ001251
LATCH
11
LE
D0
2~9
D7
Q0
Q7
19~12
25~18
A0
A7
26
XCE
8~1
A8
A15
DQ0
29,31,
33,35,
38,40,
42,44
DQ7
IC6301
RFKFMH70T320
16M FLASH ROM
DQ8
30,32,
34,36,
39,41,
43,45
DQ15
A16
A20
9,10,
16,17,48
NC
13
XOE
28
XWE
11
XRESET
12
IC6201
C0EBE0000070
RESET IC
4
OUT
VCC
5
+B
P
IC6561
C1DB00000980
CLOCK GENERATOR
7
XTI
X6501
8
XTO
768fs
10
CLK54
3
CLK22
4
FSEL
14
CLK33
15
33
NEXCE
19,20,31,
32,34,35,
44,45
EXADT0
EXADT7
17,25,26,
38,39
EXADR16
EXADR20
47
P15
46
NEXDE
18
NEXWE
68
NRST
21,22,27,
28,36,37,
40,41
EXADT8
EXADT15
170
BECLK
55
P7
92
OSCI
MN2DS0002AP1
IC3001
AV DECODER

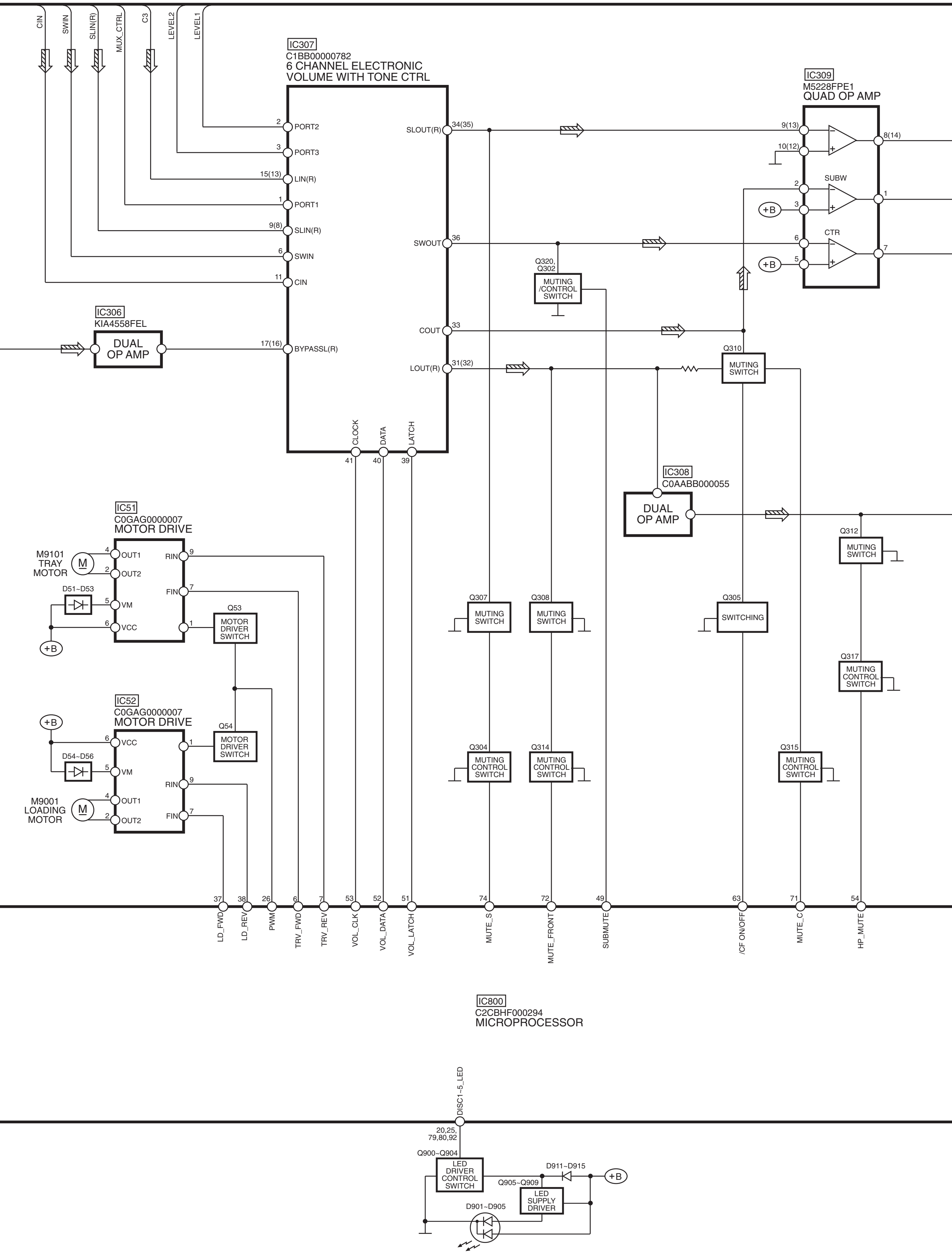

TO MAIN BLOCK
D
IC4211
C0FBBK000036
8ch AUDIO D/A CONVERTOR
VOUT7(8) 16(20) MIXL(R)
VOUT1(2) 14(13) FL(R)
VOUT3(4) 12(11) SL(R)
VOUT5 10 CNT
VOUT6 9 SW
38 SCLKI
ZFLGA 48
Q15
ZFLGA SWITCH
D20
D21
DVD_MUTE
DVD_STAT
DVD_CLK
RSTB 37
MDO 33
MDI 34
MC 35
ML 36
DIN1~3 45~47
LRCIN 41
DATA4 31
BCKIN 40
P
+B
IC6251
C0CBCBE00003
POWER SUPPLY
IC6262
C0JBAA000001
INVERTER
IC6261
C0JBAA000001
INVERTER
4
5
1,2
172 EXTCK
61 P4
60 P5
59 P6
65 P0
178~180 ADOUT0~2
174 LRCK
176 ADOUT3
49 P13
63 P2
62 P3
P1 64 CMD
DAC1OUT 158 Y/PY
DAC2OUT 160 CB/PB
DAC3OUT 161 CR/PR
DAC4OUT 163 Y
DAC5OUT 164 C
MN2DS0002AP1 IC3001 AV DECODER

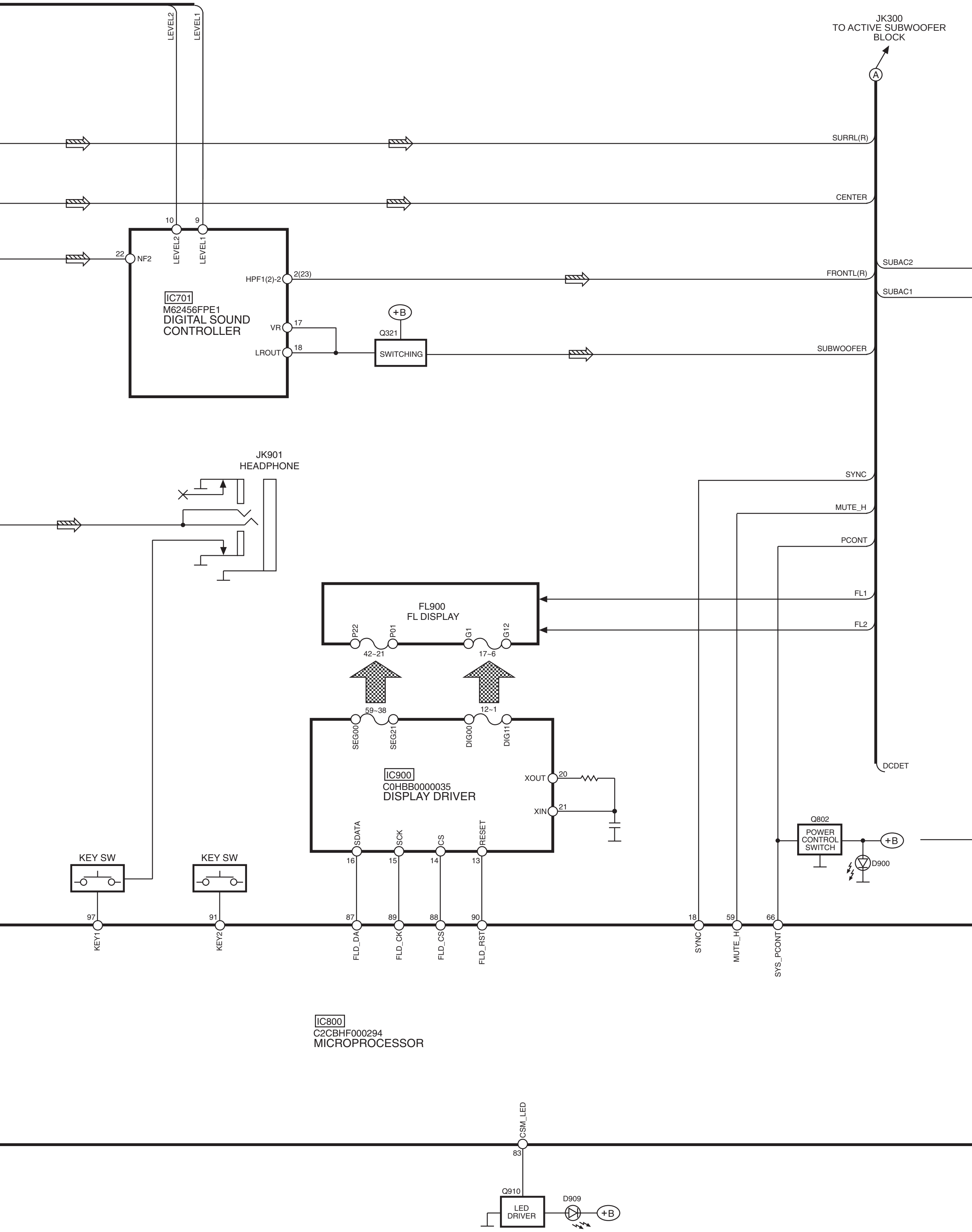

FM ANT
AM ANT
Z120
RF AMP
MIXER
OSC
BUFFER
+B
(FM)
CF201
Q101, Q102
FM IF AMP
CF202
Z101
AM ANT COIL
AM OSC COIL
(FM)
+B
Q110
DC DETECT SWITCH
+B
ALC
AM OSC
AM MIX
AM RM AMP
BUFFER
DETOUT
DECODER
PHASE DET
PILOT CANCEL
AGC
LEVEL DET
S-CURVE
STEREO SWITCH
AM/FM IF BUFFER
AM IF
AM DET
FM IF
FM DET
COMP
TUNING DRIVE
VCO
FF
FF
FF
PILOT DET
REG
REG
SD
ST
X102
+B
IC101
LA1833NMNTLM
FM/AM IF AMP, DET/AM OSC MIX /FM MPX
Z102
AM IFT
ST/DO
SD
PHASE DETECTOR CHARGE PUMP
REFERENCE DIVIDER
X103
UNLOCK DETECTOR
SWALLOW COUNTER 1/6,1/17,4 BITS
1/2
12 BITS PROGRAMMABLE DIVIDER
UNIVERSAL COUNTER
SHIFT REGISTER LATCH
C2B I/F
POWER ON RESET
+B
DO
CE
DI
CL
ST/DO
CE
DI
CL
Q106
TUNER 15V SUPPLY SWITCH
+B
+B
(FM)
IC102
LC72131MDTRM
PLL FREQUENCY SYNTHESIZER
D
TO DVD BLOCK


TVL(R)
IC950
C0JBAR000292
TRIPLE 2 CHANNEL
ANALOG MULTIPLEXER
/ DEMULTIPLEXER
IC951
BA7660FS-E2
VIDEO AMP
AV OUT
6(2)
AAIN(ABIN)
OUTA2
14
OUTA1
15
7
BLUEI/O
OUTB2
12
OUTB1
13
11
GREENI/O
OUTC2
9
OUTC1
10
15
REDI/O
MUTE
1
DET_OUT
TUN_L(R)
2
Y0
15
2
INA
12
X0
14
4
INB
5
Z0
4
7
INC
3
Z1
A
B
C
11
10
9
Q952
AMP
6
1
VIDEO
BUFFER
5
3
IC952
C1AB00001466
19
VOUT
16
BLKI/O
FUNCSW
8
IC50
C9ZB00000377
6 CHANNEL VIDEO
DRIVER
JK302
CB (GREEN)
19
CB OUT
JK302
CR (BLUE)
17
CR OUT
Y OUT1
25
Y OUT2
24
C OUT
32
PY OUT1
22
PY OUT2
21
VMUTE2
15
MIX OUT1
30
MIX OUT2
29
Q953
MUTING
SWITCH
+B
JK301
S_VIDEO
Y
G
C
G
Y/PY
8
CYIN
CB/PB
12
CBIN
CR/PR
14
CRIN
Y
5
YIN
C
3
CIN
6
4
IC53
C1AB00001466
VIDEO BUFFER
1
2
JK302
Y (RED)
JK301
S_VIDEO
VMUTE1
2
Q16
MUTING
SWITCH
DVD_MUTE
27
DVD_MUTE
60
VMUTE1
22
VMUTE
77
VMIX_CTRL
76
VMUTE_3
DVD_CLK
28
DVD_CLK
DVD_STAT
29
DVD_STAT
CMD
30
DVD_CMD
ST/DO
39
PLL_DO
DI
40
PLL_DI
SD
42
SD
CE
44
PLL_CE
CL
45
PLL_CK
IC800
C2CBHF000294
MICROPROCESSOR
RDS_DA
RDS_CK
85
86
XOUT
XIN
13
15
X800
14
15
DET_OUT
2
IC802
C1BB00000715
RDS DEMODULATION
LSI
8
9
X801


FL(R)
TVL(R)
MIXL(R)
TUN_L(R)
C3
STB
CLK
DATA
IC301
C0JZAS000004
ANALOG SWITCH
JK303
TV
JK303
VCR
JK304
AUX
29(2)
S1
28(3)
S2
27(4)
S3
26(5)
S4
25(6)
C1
24(7)
S5
22(9)
C2
21(10)
S7
20(11)
S8
C3
19(12)
STB
14
CLK
16
DATA
17
LEVEL SHIFT
LATCH CIRCUIT
SHIFT REGISTER
IC302
KIA4558FEL
DUAL
OP AMP
JK304
LINE OUT
IC303
KIA4558FEL
DUAL
OP AMP
D916
+B
Q956
CONTROL
SWITCH
Q955
SWITCH
Q300
MUTING
SWITCH
Q301
MUTING
CONTROL
SWITCH
+B
Q9001
PHOTO
INTERRUPTOR
Q51
SWITCH
+B
Q52,
Q55
SWITCH
S9001
+B
Q9103
PHOTO
INTERRUPTOR
Q9102
PHOTO
INTERRUPTOR
Q9101
PHOTO
INTERRUPTOR
5
WIDE1
3
LOAD
2
OPEN-SW
1
DISC SENSE
24
PULSE
23
POSITION
68
MUTE_L
IC800
C2CBHF000294
MICROPROCESSOR


STB
CLK
DATA
SW
CNT
SL(R)
MUX_CTRL
CIN
SWIN
SLIN(R)
C3
IC304
C0JBAR000326
QUAD 2 CHANNEL
ANALOG MULTIPLEXER
/ DEMULTIPLEXER
15(11)
W0(Z0)
6
Y0
2
X0
4
X
5
Y
14(13)
W(Z)
CONT
9
Z1
12
W1
1
Y1
10
X700
3
4
XI
XO
65(69)
LIN4(R)
IC700
C2HBZC000013
DIGITAL SOUND
PROCESSOR
30
AOT4
27
AOT3
AOT1(2)
11(14)
IFDI
/RST
/CS
IFCK
54
50
52
53
IC305
M5228FPE1
QUAD OP AMP
CTR
6
5
7
SUBW
2
3
1
9(13)
10(12)
8(14)
47
36
35
NJ_LATCH
NJ_CLK
NJ_DATA
50
33
32
31
DSP_DAT
DSP_RST
DSP_LAT
DSP_CK
IC800
C2CBHF000294
MICROPROCESSOR
/RESET
12
Q800
RESET
SWITCH
+B


CIN
SWIN
SLIN(R)
MUX_CTRL
C3
LEVEL2
LEVEL1
IC307
C1BB00000782
6 CHANNEL ELECTRONIC
VOLUME WITH TONE CTRL
2 PORT2
3 PORT3
15(13) LIN(R)
1 PORT1
9(8) SLIN(R)
6 SWIN
11 CIN
17(16) BYPASSL(R)
SLOUT(R) 34(35)
SWOUT 36
COUT 33
LOUT(R) 31(32)
CLOCK 41
DATA 40
LATCH 39
IC309
M5228FPE1
QUAD OP AMP
9(13)
10(12)
8(14)
SUBW
2
3
1
CTR
6
5
7
+B
Q320,
Q302
MUTING
/CONTROL
SWITCH
IC306
KIA4558FEL
DUAL
OP AMP
Q310
MUTING
SWITCH
IC308
C0AABB000055
DUAL
OP AMP
Q312
MUTING
SWITCH
IC51
C0GAG0000007
MOTOR DRIVE
M9101
TRAY
MOTOR
M
4 OUT1
2 OUT2
D51~D53
5 VM
6 VCC
RIN 9
FIN 7
1
Q53
MOTOR
DRIVER
SWITCH
Q307
MUTING
SWITCH
Q308
MUTING
SWITCH
Q305
SWITCHING
Q317
MUTING
CONTROL
SWITCH
IC52
C0GAG0000007
MOTOR DRIVE
6 VCC
D54~D56
5 VM
M9001
LOADING
MOTOR
4 OUT1
2 OUT2
RIN 9
FIN 7
1
Q54
MOTOR
DRIVER
SWITCH
Q304
MUTING
CONTROL
SWITCH
Q314
MUTING
CONTROL
SWITCH
Q315
MUTING
CONTROL
SWITCH
37 LD_FWD
38 LD_REV
26 PWM
6 TRV_FWD
7 TRV_REV
53 VOL_CLK
52 VOL_DATA
51 VOL_LATCH
74 MUTE_S
72 MUTE_FRONT
49 SUBMUTE
63 /CF ON/OFF
71 MUTE_C
54 HP_MUTE
IC800
C2CBHF000294
MICROPROCESSOR
DISC1~5_LED
20,25,
79,80,92
Q900~Q904
LED
DRIVER
CONTROL
SWITCH
D911~D915
+B
Q905~Q909
LED
SUPPLY
DRIVER
D901~D905

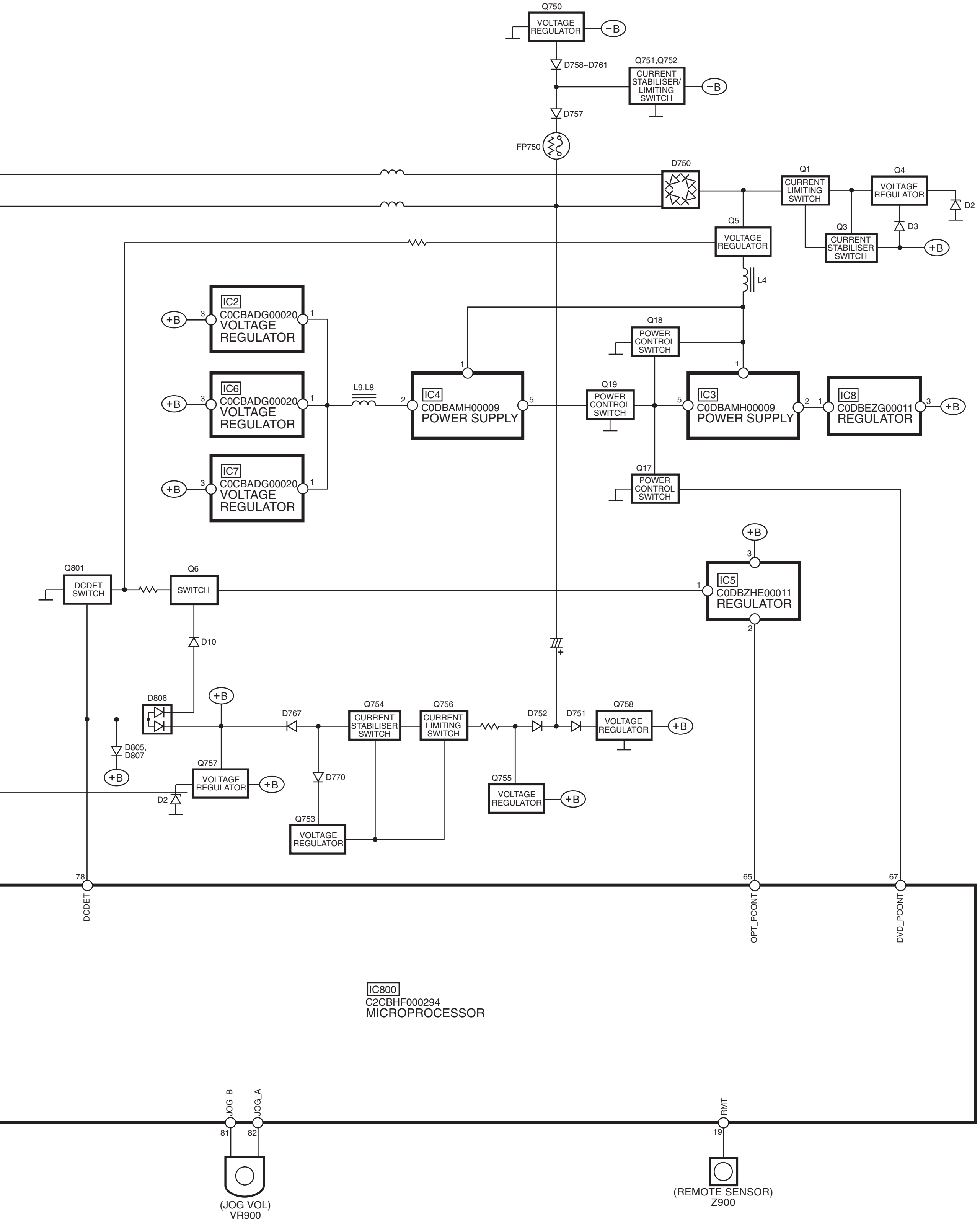

LEVEL2
LEVEL1
JK300
TO ACTIVE SUBWOOFER
BLOCK
A
SURRL(R)
CENTER
10
9
22
NF2
LEVEL2
LEVEL1
HPF1(2)-2
2(23)
SUBAC2
FRONTL(R)
SUBAC1
IC701
M62456FPE1
DIGITAL SOUND
CONTROLLER
VR
17
+B
Q321
LROUT
18
SWITCHING
SUBWOOFER
JK901
HEADPHONE
SYNC
MUTE_H
PCONT
FL1
FL2
FL900
FL DISPLAY
P22
P01
G1
G12
42~21
17~6
59~38
12~1
SEG00
SEG21
DIG00
DIG11
IC900
C0HBB0000035
DISPLAY DRIVER
XOUT
20
XIN
21
DCDET
Q802
POWER
CONTROL
SWITCH
+B
D900
SDATA
SCK
CS
RESET
16
15
14
13
KEY SW
KEY SW
97
91
87
89
88
90
18
59
66
KEY1
KEY2
FLD_DA
FLD_CK
FLD_CS
FLD_RST
SYNC
MUTE_H
SYS_PCONT
IC800
C2CBHF000294
MICROPROCESSOR
CSM_LED
83
Q910
LED
DRIVER
D909
+B

SIGNAL LINES

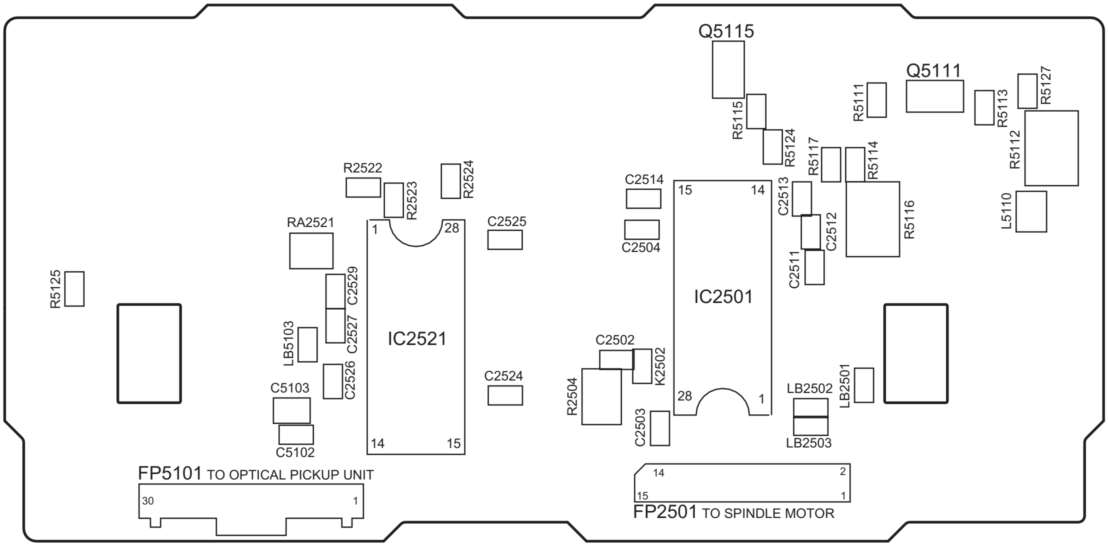
⇨	: MAIN SIGNAL LINE	➡	: AM SIGNAL LINE	⇨	: DVD AUDIO SIGNAL LINE
⇨	: FM SIGNAL LINE	➡	: AM OSC SIGNAL LINE	⇨	: DVD VIDEO SIGNAL LINE
⇨	: FM OSC SIGNAL LINE	⇨	: FM /AM SIGNAL LINE	⇨	: CD-DA (AUDIO /VIDEO) SIGNAL LINE

( ) Indicates the Pin No. of Right Channel.

NOTE : Signal Lines are applicable to the Left Channel only.

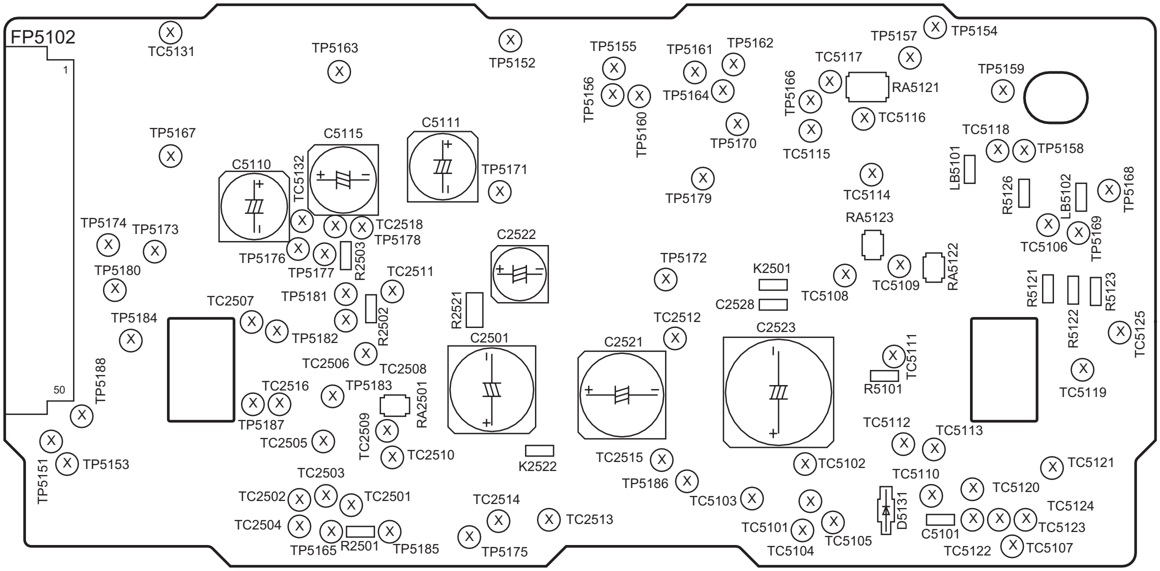

Q750
VOLTAGE REGULATOR
−B
D758~D761
Q751,Q752
CURRENT STABILISER/ LIMITING SWITCH
−B
D757
FP750
D750
Q1
CURRENT LIMITING SWITCH
Q4
VOLTAGE REGULATOR
D2
Q5
VOLTAGE REGULATOR
Q3
CURRENT STABILISER SWITCH
D3
+B
L4
IC2
C0CBADG00020
VOLTAGE REGULATOR
IC6
C0CBADG00020
VOLTAGE REGULATOR
IC7
C0CBADG00020
VOLTAGE REGULATOR
+B
L9,L8
IC4
C0DBAMH00009
POWER SUPPLY
Q18
POWER CONTROL SWITCH
Q19
POWER CONTROL SWITCH
IC3
C0DBAMH00009
POWER SUPPLY
IC8
C0DBEZG00011
REGULATOR
Q17
POWER CONTROL SWITCH
IC5
C0DBZHE00011
REGULATOR
Q801
DCDET SWITCH
Q6
SWITCH
D10
D806
D805, D807
Q757
VOLTAGE REGULATOR
D2
D767
D770
Q754
CURRENT STABILISER SWITCH
Q756
CURRENT LIMITING SWITCH
Q753
VOLTAGE REGULATOR
D752
D751
Q758
VOLTAGE REGULATOR
Q755
VOLTAGE REGULATOR
78
DCDET
65
OPT_PCONT
67
DVD_PCONT
IC800
C2CBHF000294
MICROPROCESSOR
JOG_B
JOG_A
81
82
RMT
19
(JOG VOL)
VR900
(REMOTE SENSOR)
Z900

A DVD MODULE (1) P.C.B (REP3451A-N)


A
B
C
D
E
F
G
1
2
3
4
5
Q5115
Q5111
R5111
R5113
R5127
R5115
R5124
R5117
R5114
R5112
R2522
R2524
R2523
C2514
C2513
R5116
RA2521
1
28
C2525
C2504
C2512
L5110
15
14
C2511
IC2501
R5125
C2529
C2527
IC2521
LB5103
C2502
C2524
C2526
K2502
LB2501
C5103
R2504
28
1
LB2502
C2503
LB2503
C5102
14
15
FP5101 TO OPTICAL PICKUP UNIT
30
1
14
2
15
1
FP2501 TO SPINDLE MOTOR

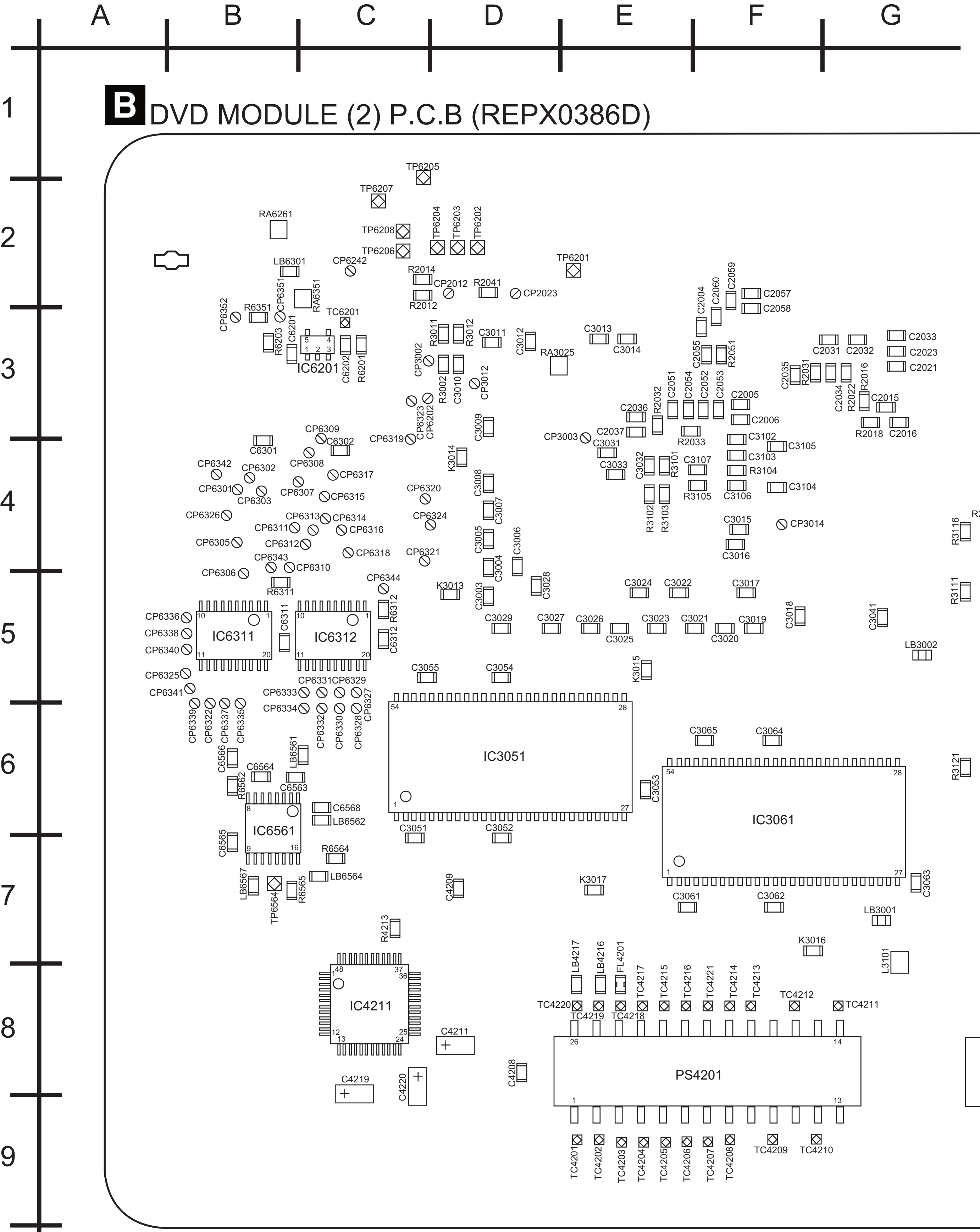
(SIDE A)

A DVD MODULE (1) P.C.B (REP3451A-N)


6
7
8
9
FP5102
1
50
TC5131
TP5163
TP5152
TP5155
TP5161
TP5162
TP5157
TP5154
TC5117
RA5121
TP5156
TP5160
TP5164
TP5166
TC5116
TP5159
TP5167
C5115
C5111
TP5170
TC5115
TC5118
TP5158
C5110
TC5132
TP5171
TP5179
TC5114
LB5101
R5126
LB5102
TP5168
TP5174
TP5173
TC2518
TP5178
RA5123
TC5106
TP5169
TP5176
TP5177
R2503
C2522
TP5172
K2501
RA5122
TP5180
TC2511
TC5108
TC5109
TP5181
R2521
C2528
R5121
R5122
R5123
TP5184
TC2507
TP5182
R2502
TC2512
C2501
C2521
C2523
TC5125
TC2506
TC2508
TC5111
TP5188
TC2516
TP5183
RA2501
R5101
TC5119
TP5187
TC2509
TC2505
TC5112
TC5113
TP5151
TP5153
TC2510
K2522
TC2515
TC5102
TC5121
TC2503
TP5186
TC5110
TC2502
TC2501
TC2514
TC5103
TC5120
D5131
TC5124
TC2504
TC2513
TC5101
TC5105
C5101
TC5123
TP5165
R2501
TP5185
TP5175
TC5104
TC5122
TC5107

(SIDE B)

B DVD MODULE (2) P.C.B (REPX0386D)



A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
TP6205
TP6207
RA6261
TP6208
TP6206
TP6204
TP6203
TP6202
TP6201
LB6301
CP6242
R2014
CP2012
R2041
CP2023
R2012
CP6352
R6351
CP6351
RA6351
TC6201
R6203
C6201
IC6201
C6202
R6201
R3011
R3012
C3011
C3012
C3013
C3014
RA3025
CP3002
R3002
C3010
CP3012
C2004
C2060
C2059
C2057
C2058
C2055
R2051
C2033
C2031
C2032
C2023
C2021
C2035
R2031
R2016
C2034
R2022
C2015
R2018
C2016
C2005
C2006
C2036
R2032
C2051
C2054
C2052
C2053
C2037
CP3003
C3031
R2033
C3102
C3105
C3103
R3104
C3104
C3033
C3032
R3101
C3107
R3105
C3106
R3102
R3103
C3015
C3016
CP3014
R3116
R3111
CP6323
CP6202
CP6319
C3009
CP6309
C6302
C6301
CP6308
CP6342
CP6302
CP6317
CP6301
CP6303
CP6307
CP6315
CP6320
K3014
C3008
C3007
CP6324
CP6326
CP6313
CP6314
CP6311
CP6316
C3005
C3006
CP6305
CP6312
CP6318
CP6321
CP6343
CP6310
C3004
CP6306
R6311
CP6344
K3013
C3028
C3003
C3024
C3022
C3017
R6312
C6311
IC6311
IC6312
C6312
CP6336
CP6338
CP6340
C3029
C3027
C3026
C3025
C3023
C3021
C3020
C3019
C3018
C3041
LB3002
K3015
CP6325
CP6341
C3055
C3054
CP6331
CP6329
CP6333
CP6334
CP6327
CP6339
CP6322
CP6337
CP6335
CP6332
CP6330
CP6328
IC3051
C3065
C3064
R3121
C6566
LB6561
C6564
R6562
C6563
C3053
C6568
LB6562
IC6561
IC3061
C6565
R6564
C3051
C3052
LB6567
TP6564
R6565
LB6564
C4209
K3017
C3063
C3061
C3062
LB3001
R4213
K3016
L3101
LB4217
LB4216
FL4201
TC4217
TC4215
TC4216
TC4221
TC4214
TC4213
TC4212
TC4220
TC4219
TC4218
TC4211
IC4211
C4211
C4208
PS4201
C4219
C4220
TC4201
TC4202
TC4203
TC4204
TC4205
TC4206
TC4207
TC4208
TC4209
TC4210

(SIDE A)